

**Village of
Port Barrington, Illinois**

Groundwater Investigation Report

May 20, 2009

ROONEY CONSULTANTS, INC.
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June 11, 2009

Ms. Patricia Nomm, Director
McHenry County Health Department
2200 North Seminary Avenue
Woodstock, Illinois 60098

RECEIVED

JUN 12 2009

**McHENRY COUNTY
DEPT. OF HEALTH**

Dear Ms. Nomm:

Enclosed is a copy of the "Groundwater Investigation Report" which we recently completed for the Village of Port Barrington.

Sincerely,

ROONEY CONSULTANTS, INC.

Mark C. Rooney

Mark C. Rooney

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INTRODUCTION

During the period from May 2007 to October 11, 2007, blue dye was applied to the detention ponds in Riverwalk subdivision. Later in October, blue dye began to appear in the well water of several Riverwalk homes.

The initial purpose of this study was to investigate conditions that were responsible for the dye's presence in well water in the Riverwalk subdivision. As the investigation progressed, it became evident that the presence of blue dye was an indication of groundwater conditions that appear to involve more than just the subdivision. The study was then expanded to consider the entire Village.

The investigation included the following work items:

- 1) A field inspection of all detention ponds and the rill system, to gain familiarity with the impacted area.
- 2) A review of publicly available information from the McHenry County Department of Health and Lake County Health Departments. Freedom of Information Act requests were submitted to both departments, and both departments responded immediately.
- 3) A review of all Village files containing information or correspondence regarding construction of the Riverwalk subdivision.
- 4) A review of all Riverwalk subdivision plans available at the Village Hall.
- 5) Sounding of detention ponds in the Riverwalk subdivision, which indicated that the two large detention ponds south of Rawson Bridge Road were deeper than shown on construction plans. The actual bottom elevations were then determined by topographic survey methods.
- 6) Research and analysis of hydrogeologic studies, reports, and investigations regarding the Port Barrington area available in the literature.
- 7) Acquiring and analyzing all available well logs for the Port Barrington area.

PHYSICAL SETTING

The Village of Port Barrington ('Village') is located in northern Illinois, approximately 50 miles northwest of Chicago. Annexation activity over the years has increased its land size to span Algonquin, Cuba, Nunda, and Wauconda Townships through parts of McHenry and Lake Counties. The Village was known as Fox River Valley Gardens until 2002. The single-family homes located here are built predominantly on quarter-acre lots with private wells.

Topographically, the Village lies on a lowland plain on an eastern bank in a bend of the Fox River, as shown on Figure 1 (see Appendix A). Elevations across the Village range from a low of 731 mean sea level (MSL) at the river on the west to a high of 742 MSL near the intersection of Roberts and Rawson Bridge Roads to the east, for a total relief of 11 feet.

There are two major water features in the area: the Fox River, located to the west and Slocum Lake to the northeast. In the area of the Village, the Fox River runs directly north-south, then makes an almost 90 degree bend forming an elbow shape, then diverts again to the south and southwest. The river bounds the Village on its West and South sides, with water flowing from the northwest to the southeast. The river's banks in this area are very shallow and segue into many adjacent swampy areas, including those within and directly adjacent to Village boundaries.

In addition to these two features, there also exists a series of man-made channels known as the Nielsen Channels which dissect a large portion of the southern part of the Village. Figure 1 also shows swampy or wetland area scattered throughout these low areas.

Land use in the Village and surrounding areas is primarily residential, with some agricultural, recreational (marinas, fishing, parks), and conservational uses.

REGIONAL GEOLOGIC SETTING

Northeastern Illinois has experienced several glacial epochs, but it was the last one, the Wisconsinan, that shaped most of its present day topography and deposited most of the glacial sediments found in the subsurface. Those glacial sediments are the result of erosion and deposition generated by at least three ice lobes that advanced from continental glaciers through the Lake Michigan Basin (Cobb and Frasier, 1981). Most of McHenry County and part of Lake County were covered at one time by the Harvard Sublobe glacier, which deposited six terminal moraines and associated ground moraines and outwash (Willman and Frye, 1970). Terminal moraines form when an ice front advances at the same rate it melts, which results in long, arcuate ridges usually composed of an unsorted clay, silt, sand, and gravel mix commonly known as "till." When a glacier retreats, the ice front melts faster than its advance, and sediment known as 'ground moraine' is deposited. Additionally, debris-laden meltwater flows away from the ice front, depositing outwash plains and valley trains of sorted and stratified sediment. Figure 2 shows an idealized schematic illustrating some common topographic features associated with glacial deposition. Both outwash plains and valley trains are major sources of sand and gravel in northeastern Illinois (Ekblaw and Lamar, 1964). Glaciers can advance and retreat, re-advance and re-retreat, with a common end result being the interlayering of sand and gravel with clayey till units.

Stumpf, Hansel and Barnhardt (2006) mapped glacial drift (Figure 3) in the Village area. Their study concluded that most of the 150 to 350 feet of glacial drift overlying bedrock here is composed of sand and gravel deposited by ice and

related meltwater from the continental glaciers that were in existence 25,000 to 14,000 years ago.

Below glacial drift is bedrock. Figure 4 shows that bedrock in the region is comprised almost entirely of Silurian dolomite, with some layers of shale belonging either to the Silurian or the Ordovician age (Mikulic et al, 1985). Illinois was almost continuously under a shallow sea during Silurian times (435 to 1.5 million years ago), during which time carbonates were deposited as reefs, and later became rock. In northeastern Illinois, the Silurian is composed of a type of carbonate called dolomite, which is distinguished from limestone by the presence of magnesium in its mineralogy.

RIVERWALK GEOLOGY

The area of the Riverwalk subdivision has been studied in two geological reports. First, the quaternary geology of the Barrington quadrangle was investigated by authors from the Department of Geology and Environmental Geosciences, Northern Illinois University (Stravers, Welsh, and Kulczycki, 2002). Their findings are shown in Figure 5. In 2004, the surficial geology of the Wauconda quadrangle was mapped by the Illinois State Geologic Survey (Stumpf, Barnhardt, and Hansel, 2004) (Figure 3). As seen in Figures 3 and 5, the land surface of the Village, and of the southernmost portion of Riverwalk, were mapped primarily as Henry Formation outwash sediment, with Grayslake Peat being the predominant deposit in the south. There are also occurrences of Cahokia Formation found adjacent to the river, but only in the north. These formations and deposits have the following descriptions:

- **Holocene Sediments** - Alluvial deposits of Grayslake Peat and Cahokia Formation as well as Disturbed Land are the youngest type of sediment in the area.
 - Grayslake Peat – Peat and muck accumulated in low-lying depressions, drainage ways, and on floodplains
 - Cahokia Formation – Silt and clay with sand lenses; postglacial river and stream sediment found on active floodplains
 - Disturbed Land – Land disturbed by human activities such as excavation, fill, farming, and other industry.

- **Henry Formation** – Fine- to coarse-grained sand and gravel, bedded; glacial meltwater sediment found at the margin of major floodplains and on stream terraces and outwash aprons (proglacial fluvial deposits); thickness ranges from 30 to 100 feet; may be present at the surface or as a tongue of sand and gravel beneath the Wadsworth till, Haeger till, and Tiskilwa till (Stumpf, Hansel, and Barnhardt, 2006). Considerable lateral and vertical variation is present in grain size, sorting, bedding, and structure of deposits within the formation. This distinguishes it from the overlying Cahokia formation, the sand of which tends to be finer grained (Hansel and Johnson, 1996). This

formation can reach thicknesses of over 200 feet in major valleys, but can also be present in as little as three feet where it was deposited along moraine fronts. There are three tongues that are associated with the Henry formation, but only two, an unnamed tongue and the Beverly Tongue, are relevant to the Village site. These tongues consist of fine- to coarse-grained, bedded glacial meltwater sediment found in the margin of major floodplains and on stream terraces and outwash aprons.

WATER WELL INVENTORY AND CROSS SECTIONS

A water well inventory was compiled for the Village and surrounding area from over 600 publicly available well logs on file with the Illinois State Water Survey. Appendix B contains copies of the logs that were used to create geologic profiles; all other records are on file at the Village Hall. The records were reviewed for usefulness, and useful records were plotted for developing geologic profiles, or cross sections. See Figure 6a and 6b for well record locations and plan of sections.

In all, 4 cross sections were developed from the inventory: Section A-A', Section B-B', Section C-C' and Section D-D' (Figures 7, 8, 9, and 10, respectively).

Section A-A':

Section A-A' (Figure 7) utilizes 12 well records to show a geologic profile that trends from the west side of the Fox River (on the left), through the old part of the Village, northward to Slocum Lake. In the section, it can be seen that the first geologic unit encountered in the subsurface is a discontinuous layer of clay. This clay is described in logs as being "brown" or "brown and yellow", and ranges in thickness from zero (at Boring 61) to 15 feet (Boring 51) thick. This may correlate to what the regional literature defines as the Equality Formation, which is described as a brown to gray clay with lenses of gravel, sand, diamicton and organic debris (Hansel and Johnson, 1996). Locally, this formation is described as being extremely variable in thickness, and laterally can grade into other formations. However, without detailed boring logs, definitive classification of this clay is not possible. Throughout most of the section, the clay intersects ground surface. In some areas, it appears that the clay has been weathered into topsoil, or is overlain by deposits of peat, which is consistent with regional surficial geology recorded for this area. Where the clay is absent, sand and gravel deposits occur at ground surface. This sand and gravel forms a significant layer in the section, with apparent lateral continuity from the southwest to the north. It ranges in thickness from as little as five to as much as 115 feet of uninterrupted thickness. Well records described the deposit as "gravel," "sand and gravel," "sand," or "fine sand." The occurrence of this unit is also consistent with what geologists have identified as the Henry Formation, which is described by Hansel and Johnson (1996) as having "considerable lateral and vertical variation" in "grain size, sorting, bedding, and structure." This is essentially what is shown in

the section, derived from well logs. Also present at depth is another clay layer, which seems to overlie bedrock in some areas. Not enough information is available about this unit, making a potential classification imprudent. Where the clay is absent, sand and gravel lie on top of the bedrock surface.

Bedrock in this section is encountered by nine of the 12 wells, and generally occurs at 125 feet below ground surface (approximate elevation 620 Mean Sea Level (MSL)), with a relatively flat surface exhibiting minor dips and bumps. Well records describe bedrock as "limestone," but, as was discussed in the regional geology section of this report, the geologic literature has determined that the rock type is actually dolomite, a magnesium carbonate. Well Record 3, the deepest representation in the cross section, shows an additional layer of shale (25 feet thick), which in turn is underlain by more dolomite. This bedrock sequence is generally consistent with the geologic characterization of bedrock for northeastern Illinois. The topmost unit of bedrock in this area appears to correlate with Silurian-aged dolomite, which Willman et al. (1975) report as occurring in thicknesses of between 400 – 600 feet. The next bedrock unit is the shale layer. While there is not enough information available from well logs to correlate the shale or determine if the shale layer propagates laterally, two correlation scenarios are possible. The first scenario is that the shale is part of the Maquoketa Shale group of Ordovician age, in which case it could be expected to be laterally continuous. The second scenario is that the shale is only locally present as a lenticular body in part of an interreef complex of the Silurian age Racine Formation, in which case it could be expected to be laterally discontinuous.

Section B-B':

Eleven well records were used to construct Section B-B' (Figure 8) which illustrates a geologic profile initiating at the Fox River and trending east through the old part of the Village and past Roberts Road. As in Section A-A', a discontinuous clay layer with occurrences of topsoil is the topmost geologic unit in the subsurface. As the topmost layer, the clay varies in thickness from zero to 30 feet thick, with one notable exception at Well Record 10 which will be discussed in more detail later. Unlike Section A-A', however, the clay in this section shows a vertical continuity which extends in areas from ground surface to bedrock. The interpretation of this clay unit in such a configuration is consistent with the glacial history of the area.

Interspersed with the clay is the sand and gravel unit that is also seen in Section A-A'. Where clay is absent, this sand and gravel intersects ground surface and in some places appears to extend all the way to the top of bedrock. The sand and gravel appears to be highly variable in thickness but generally continuous throughout the western portion of the section. Eastward, it is horizontally interrupted by a deposit of clay that daylights just east of Roberts Road and

extends vertically to bedrock. Continuing east, another vertically continuous, but laterally restricted sand and gravel layer can be seen also intersecting the ground surface and continuing to bedrock.

Bedrock is present at 120 feet below ground surface, possessing minor dips and mounds, with a notable exception at Well Record 10. The bedrock is composed of limestone/dolomite. As in Section A-A', there is a shale layer, this one 18 feet thick and present at 182 feet below ground surface. No other wells in this section extend to this depth, so lateral continuity of this layer cannot be ascertained.

It is worth noting that Well Record 10 describes a geology that is anomalous among all other records in all other sections prepared for this report. First, the boring at this location was drilled to 307 feet below ground surface (bgs), with bedrock encountered at 290 feet bgs. If this is correct, bedrock is approximately 170 feet deeper here than at any other location evaluated for this report, which is also anomalously lower than what is shown in published literature on bedrock. Secondly, the geology in the boring is entirely clay for the first 217 feet, with a four feet thick sand and gravel layer at 124 feet. Since this well record is not relied on for any conclusions, it is beyond the scope of this report to explain these anomalies beyond mentioning them.

Section C-C':

Section C-C' (Figure 9) utilizes 14 well records to illustrate a geologic profile that starts on the west side of the Fox River and continues to the east, ending in the area of the Williams Park subdivision. This section depicts a profile that is very similar to the Cross Section A-A' in that it exhibits a topmost discontinuous clay unit underlain by sand and gravel, which in turn is underlain in part by more clay, and then bedrock. Unlike the sequence depicted in A-A', but more similar to B-B', section C-C' shows a substantial thickness of clay to the east. As with other sections, where the clay is absent, sand and gravel either daylight at ground surface or, at depth, directly overlies bedrock. Bedrock generally occurs at 125 feet below ground surface (approximate elevation 620 Mean Sea Level (MSL)), with a relatively flat surface exhibiting minor bumps and dips. As with the other two sections, bedrock is composed of dolomite. Of the seven wells that extend to or into bedrock, none go deep enough to confirm the presence of shale.

Section D-D':

Section D-D' (Figure 10) is a geologic profile that focuses on the geology of the Riverwalk Subdivision. The section starts in the north at 611 Camden Lane and progresses southwestward to end in the old part of the Village at 125 Eastwood Avenue (Well Record 30). Once again, there is the familiar sequence of clay overlying sand and gravel, which overlies more clay, which overlies limestone/dolomite bedrock. At depth, where clay is absent, the sand and gravel

directly overlies a topographically flat bedrock surface. Unlike previous sections, the uppermost clay unit, which also constitutes ground surface, appears to be laterally continuous with one exception. Pond 4B, which lies along the south central side of Riverwalk, interrupts the lateral continuity of clay, its bottom intersecting the underlying sand and gravel unit, which makes the sand and gravel unit the topmost layer at that point in the section.

HYDROGEOLOGIC SETTING

There are two major surface water features in the area of the Village: the Fox River, located to the west, and Slocum Lake to the northeast. The Fox River forms an almost 90 degree elbow-shaped bend which bounds the Village on its west and south sides. The river's banks in the Village area are shallow and segue into many low-lying water-saturated areas, including those within, and directly adjacent to, Village boundaries, as seen in Figure 1. In addition to the river and lake, surface water is also present in the form of a series of man-made canals known as the Nielsen Channels which dissect a large portion of the southern part of the Village.

Regionally, in the subsurface, there are three major water-bearing units: glacial drift aquifers, shallow bedrock aquifers, and deep bedrock aquifers. Glacial drift aquifers are composed of sand and gravel laid down by glacial meltwater as described earlier in this document. The geologic literature describes these aquifers as being relatively uniform, widespread, and primary water sources for wells in the area. These aquifers are found throughout northeastern Illinois at various depths, but where not overlain by other types of deposits, they are exposed at ground surface. Such aquifers are primarily recharged through precipitation such as rain and snow melt.

Shallow bedrock aquifers are another type of water-bearing unit in the subsurface. In this part of Illinois, shallow bedrock aquifers are composed of Silurian dolomite. Shallow bedrock has highest water yields when it is highly fractured and directly underlies, and is in hydraulic connection with, overlying sand and gravel aquifers. The Silurian dolomite in northeastern Illinois is underlain by Maquoketa Group shales which, due to their low permeability, are non-water bearing and act as an aquitard (barrier to flow).

A third type of water-bearing unit for this part of Illinois is the deep bedrock aquifers which occur under the Maquoketa Group shales and are largely comprised of sandstone. These deep aquifers can be more than 800 feet deep, and are often resorted to only if shallower water resources are not available.

VILLAGE HYDROGEOLOGY

Hydrogeology is the study of the distribution, interaction, and movement of groundwater in the soil and rocks of the Earth's crust. Figures 11a and 11b present idealized versions of groundwater moving under the influence of gravity from topographic high areas to topographic low areas, both locally and regionally. Water infiltrating into the ground is considered "recharge"; water exiting the ground is considered "discharge."

The hydrogeology of the Village was studied using the cross sections previously discussed, which yield interesting observations about local hydrogeologic conditions.

The first observation is that there is a layer of clay that appears to form most of the ground surface. Clay is a naturally occurring material composed primarily of fine-grained minerals. The fine-grained nature of clay and its mineralogic structure provide very little pore space to store water or for water to move through. As a result, clay has low permeability and therefore impedes the conductance of water. The presence of low permeability clay at ground surface across the Village is evidenced by the numerous swampy areas noted on the cross sections and on quadrangle maps. Water falls on the clay as snow or rain, but, being prevented from moving downward by the low porosity/low permeability of the clay, flows over the clay surface to be trapped in depressions as ponds or wetlands. It should be noted that there are several areas where the clay is absent at the ground surface (Cross Section Well Records 14, 58, and 61) or thin (< 3 feet at Cross Section Well Records 9, 16, 24, 53, and 50) (see Figure 12), so that effectively the underlying sand and gravel is the ground surface at those points.

A second observation illustrated by the cross sections is the substantial layer of sand and gravel. As noted in the regional hydrogeology discussion, sand and gravel is an aquifer. Unlike clay, sand and gravel is composed of relatively large size granular material in such a way that pore space is plentiful and interconnected, giving it high permeability. Water entering the sand and gravel is free to move, in the absence of other influences, by gravity. The cross sections show that water has two ways to enter this aquifer:

- 1) Vertically as precipitation where sand and gravel intersect the ground surface (see Well Record 61 on Cross Section A-A' as an example of this condition); and,
- 2) Horizontally from adjacent permeable deposits. Horizontal movement can be envisioned by reviewing Well Record 61 and Well Record 57 on Cross Section A-A'. While Well Record 57 shows clay overlying the aquifer, because the aquifer is horizontally continuous to 61, it is possible for water entering the aquifer at 61 to then travel laterally to 57.

Third, the cross sections show the sand and gravel aquifer directly overlying bedrock in several areas. As stated in the regional discussion, "Bedrock has highest water yields when it is highly fractured and directly underlies, and is in hydraulic connection with, overlying sand and gravel aquifers." This is expected to be the case in the Village. However, the cross sections also show the presence of a deep layer of clay overlying bedrock (see Cross Section Well Records 4, 9, 13, 14, 18, 24, 25, 29, 30, 46, 47, 51, 55, 56). This clay varies in thickness from as little as about 10 feet to over 80 feet. Where present, the clay is expected to locally act as a barrier to water flow between the overlying sand and gravel to the underlying bedrock.

Last, Cross Section D-D' illustrates the likely surface water connection between Pond 4B and the sand and gravel aquifer. This is 'likely' because without geologic information for Pond 4B, there is no way of knowing the exact thickness of clay forming the sides of the pond, or what material forms the bottom of the pond. The rendition of Pond 4B, however, is consistent with geologic conditions observed in the section. Using an average clay thickness in this section of 12.4 feet, the estimated elevation of the bottom of the clay area around Pond 4B is 726.3 MSL. Based on a topographic survey of Pond 4B, the bottom of that pond is 723 MSL, which is three feet below the clay layer and appears to intersect the underlying sand and gravel.

In summary, groundwater ideally moves through simple geologic systems (see Figure 11a). Precipitation recharges groundwater at topographic highs and groundwater discharges to surface water in topographic lows. As has been discussed, the system in the Village area is not simple. The Village lacks topographic relief, so there are no high and lows for groundwater to flow between. Both surface and subsurface environments are composed of discontinuous, interlayered permeable and impermeable sediment which alternately conduct or impede any water flow that there may be. Permeable sand and gravel sometimes intersects the ground surface, providing a direct route for recharge to the aquifer, but in other areas low permeability clay covers the aquifer and prevents direct recharge. Permeable bedrock is in contact with sand and gravel in some areas, but in others it is directly overlain by clay which likely inhibits flow from sand and gravel. These observations indicate that groundwater movement in the Village is dependent on the set of conditions at any given point, those conditions are complex at any given point, and thus groundwater movement is ruled by complexity.

While the cross sections are a useful tool to hypothesize about hydrogeologic conditions in the Village, they do not take the place of a thorough understanding of their complexity. Such an understanding would require field measurement of flow parameters in each individual sediment and rock layer present, involving soil sampling, rock sampling, and installation of monitoring wells to study groundwater movement over time. This may be an option for the Village at some future time. For now, hypotheses and the well records are enough to draw

certain conclusions with regard to the Village's groundwater supply and its potential for contamination.

CONCLUSIONS

Blue Dye in Riverwalk Subdivision Wells

In May 2007, Aquatic Weed Technology began their maintenance of the Riverwalk subdivision ponds. Their service reports show that the first application of 'pond dye' was made on May 17, 2007. Subsequently, there were five applications made in June, three applications in July, three applications in August, four applications made in September, and two in October with the last application being on October 11, 2007. Also in October of 2007, blue dye started to appear in the water at several Riverwalk Subdivision homes.

The Illinois Environmental Protection Agency, the Illinois Department of Public Health, the Illinois State Geological Survey, the Illinois State Water Survey, the McHenry County Department of Health and the Lake County Health Department were contacted, and water sampling was conducted to confirm dye presence. Figure 14 shows all the wells that were tested and those which tested positive for dye.

The dye was determined to be that applied to the ponds by Aquatic Weed Technology. How did the dye in the ponds get into the residential wells? Figure 15 gives a likely explanation. The figure shows the cross section for Pond 4B. In Step 1, blue dye is introduced into the pond. In Step 2, the dye moves out of the pond and into the sand and gravel by diffusion or groundwater flow, or a combination of both. In Step 3, the dye travels through the aquifer to areas adjacent to Pond 4B and reaches house wells that pull their water from the aquifer. This scenario is the most likely because while all Riverwalk ponds and the rill system had dye applied to them, only Pond 4B appears to be connected to the underlying sand and gravel and is centrally located to all the wells that tested positive for the dye. It would be expected, given the permeability of the sand and gravel, that if any other pond had its bottom connected to the sand and gravel, dye would occur in adjacent wells. Similarly, if the circulating rill system connected to the sand and gravel, the occurrence of dye would be expected in the wells adjacent to rill channels in the subdivision. These scenarios do not appear to be the case as there have been no further reports of dye in wells.

Although the blue dye posed no health threat, the incident has served to draw attention to the vulnerability of Village groundwater supplies to contamination.

Potential for Groundwater Contamination

In their 2004 study of the Wauconda quadrangle, geologists Stumpf, Barnhardt, and Hansel note the potential for shallow aquifer contamination by surface pollutants is high in the area of the Village because water-bearing sand and gravel deposits are exposed at ground surface. Cross sections prepared from well logs confirm these statements. Without clay, contaminants that find their way onto the ground and can move directly into porous sand and gravel and into the groundwater which supplies residential wells and surface water features connected to the sand and gravel such as lakes, rivers, and ponds. To help identify what areas of the Village might be the most vulnerable to contamination at ground surface, a map was prepared (see Figure 12) which shows where clay is absent or thin in and around the Village, and thus depicts known potential contaminant entry points to the sand and gravel aquifer.

There are similar concerns for the shallow dolomite aquifer. Figure 13 shows where the sand and gravel aquifer directly overlies the dolomite aquifer. In these areas, any contaminant present in the sand and gravel could move unimpeded into the dolomite. Thus, Figure 13 depicts potential pathways by which contaminant can likely move from the sand and gravel aquifer into the shallow bedrock aquifer.

Figures 12 and 13 are conservative, based solely on the information provided by well logs. Other soils data indicates that potential contaminant pathways may be more prevalent.

Together, Figures 12 and 13 illustrate the Village's susceptibility to the following list of mechanisms/incidents by which contaminants could be introduced into its groundwater supplies.

Potential Hazards to Groundwater:

- Manmade
 - Improperly abandoned, or damaged but functioning water wells
 - Improperly stored salt or other de-icing agents
 - Operations of pipelines not regulated by county, state, or federal governments, or RCRA
 - Unauthorized dumping
 - Stormwater injections wells which can conduct stormwater runoff contaminated with oils, gasoline, road salt, pesticides, fertilizers, and other materials spilled or spread on the ground
 - Leaky underground, or above ground, storage tanks used by industries, businesses, homes, farms, marinas and municipalities
 - Inappropriate application of fertilizers, pesticides, and herbicides
 - Accidental truck spills on roadways

- Misapplication and/or mishandling of chemicals in residential neighborhoods and golf courses, including malfunctioning septic fields
- Chemical
 - Several types of contaminants have been detected in the aquifers with McHenry County, including organic chemicals, salts, petroleum, and nutrients such as:
 - Volatile organic compounds (VOCs)
 - Synthetic organic compounds (SOCs)
 - Tri-chloroethylene (TCE)
 - Tri-chloroethane (TCA)
 - Benzene
 - Methyl tertiary butyl ether (MTBE)
- Microbial
 - Viruses and bacteria can be introduced to groundwater through a variety of sources including sewage treatment plants, septic systems, agricultural livestock operations, and wildlife

ALTERNATIVES

There are three apparent alternatives to the problems posed by the aquifers' susceptibility to contamination.

1) Public Water Supply

A public water supply system would consist of a well extending to a deep, protected aquifer, a backup well, a water treatment facility, and an elevated storage tank and distribution system. In addition to the initial construction costs, this method would require ongoing costs for operations, plant and distribution system maintenance, chemicals, and plant replacement. These costs would be defrayed by a periodic charge for water consumed.

Perhaps a more economical means to achieve the same result would be to purchase treated water from the Village of Island Lake. This would reduce first costs considerably, because one well and a treatment and storage facility would be eliminated. There would be some continuing costs for the maintenance and replacement of the distribution system, as well as a periodic fee for the water, based on water consumption.

For comparison purposes, we have developed an opinion of construction costs for the water distribution system to serve the Riverwalk Subdivision. The cost opinion is based on our past experience with water distribution systems over the past five years in nearby communities. The cost opinion, for Riverwalk Subdivision, is \$4,000,000.00. In addition to this cost, each homeowner would

incur a charge of approximately \$1,800.00 to \$2,500.00 for the installation of a service line from the property line to the house.

We would expect the distribution system to be eligible for an interest-free loan, for a 20-year term, from the Illinois EPA. The best way to guarantee loan repayment would be to form a special service area. The annual increase in real estate taxes due to the SSA would be approximately \$800.00. In the event that the IEPA loan was not available, financing at 6% for a 20-year term would result in an increase in real estate taxes of approximately \$1,400.00.

It is our opinion that if a distribution system was provided for the entire Village, the costs to an individual homeowner would be quite similar to those prepared for the Riverwalk Subdivision.

2) Point of Use Treatment

Another alternative is the installation of individual water treatment equipment in each household. Such a system would likely consist of carbon filtration, reverse osmosis, and either chlorination or ultra-violet radiation. Our opinion of costs for this system is \$3,000.00 to \$5,000.00. There would be additional ongoing costs for this system because of the necessity for inspections, servicing, maintenance, and replacement of various elements by trained personnel.

3) Groundwater Protection Program

Recent studies in Lake County indicate that as the population increases, potable drinking water is becoming a scarce commodity. Almost 300,000 new Lake County residents will not have access to Lake Michigan water, leaving groundwater and inland surface waters as alternative sources. While the Fox River is a potential source, it will not meet all of the need. Limited availability of water from Lake Michigan, the deep bedrock aquifers, and the Fox River leave only one other major source of potable water: the shallow aquifers.

A Groundwater Protection Program is a viable and economic approach to the Port Barrington water supply problem, and it is an environmentally responsible one. It will benefit not only the residents of Port Barrington, but also residents of other communities served by the same aquifer. It can also serve as an example of how groundwater should be protected, encouraging other communities to join the effort to conserve a valuable resource.

Elements of the Grounds Water Protection Program, at a minimum, would include:

- 1) Periodic sampling and analyses of groundwater from strategic locations in the Village. The parameters to be monitored would be primarily those which act as indicators of contamination. Fecal coliform is an example of such an indicator. The presence of fecal coliform in a water supply

indicates contamination by a domestic wastewater source but does not identify individual pathogens. In addition to monitoring for fecal coliform, other parameters include nitrates and various synthetic and/or volatile organic compounds.

- 2) Identification and protection protocols for areas that are identified as susceptible to contamination.
- 3) A land use or zoning plan that considers groundwater protection.
- 4) Periodic inspection of surface water contributions to groundwater. The Village is already involved in such a program in compliance with its National Pollutant Discharge Elimination System permit.
- 5) An emergency response program for accidental spills or discharges.
- 6) Preparation of Village ordinances regarding the use of herbicides and pesticides in high risk areas.

Bibliography

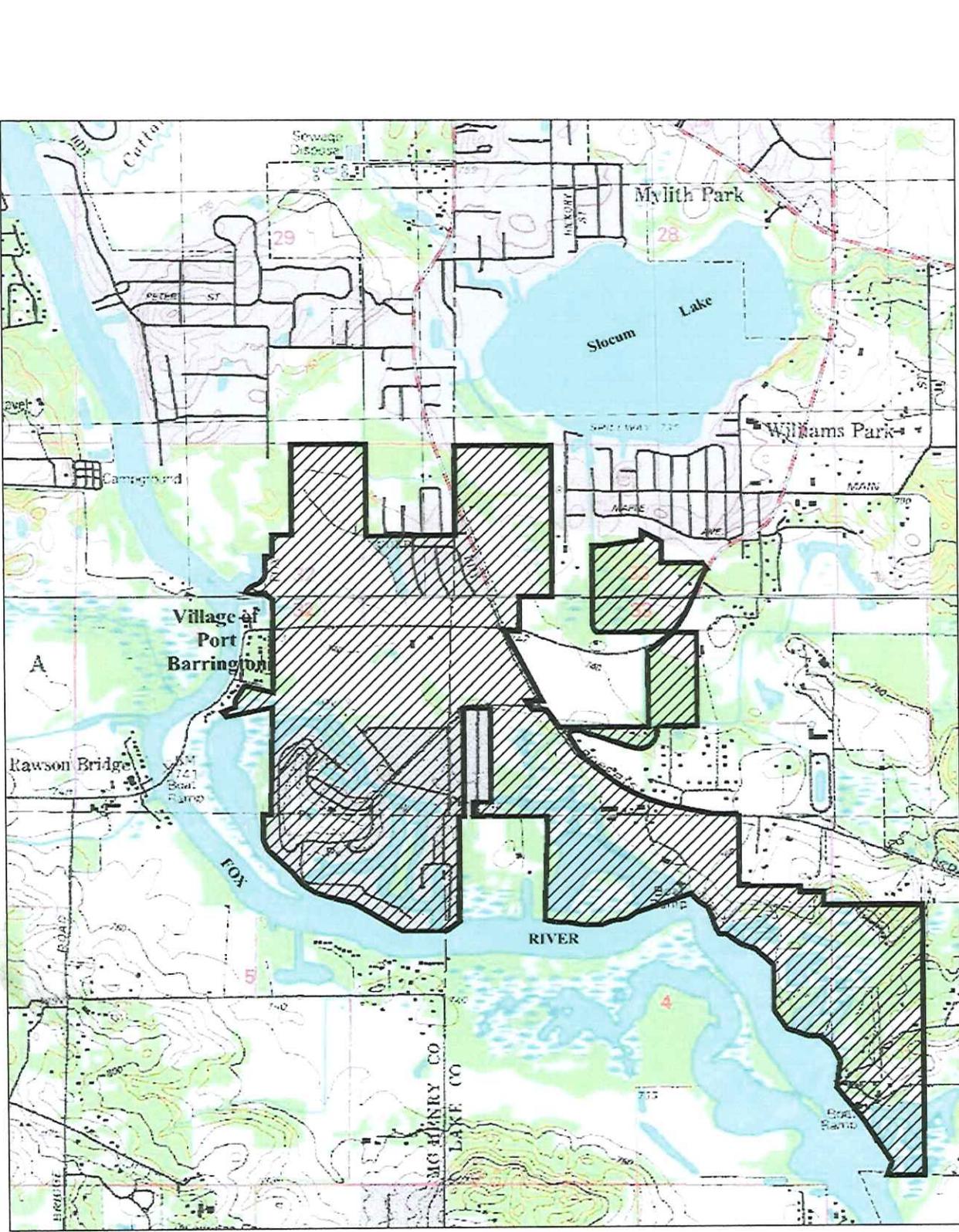
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APPENDIX A

FIGURES

Appendix A: List of Figures

- Figure 1: Site Location
- Figure 2: Idealized Relationship of Glacial and Alluvial Deposits to Landforms and Bedrock Surfaces
- Figure 3: Glacial Drift Map – Wauconda Quadrangle
- Figure 4: Composition of Bedrock Surface
- Figure 5: Drift Map – Barrington Quadrangle
- Figure 6a: Well Record Locations and Plan of Sections
- Figure 6b: Plan of Cross Section D – D'
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- Figure 8: Cross Section B – B'
- Figure 9: Cross Section C – C'
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- Figure 11b: Hypothetical Flow System
- Figure 12: Potential Contaminant Entry Points to Sand and Gravel Aquifer
- Figure 13: Potential Contaminant Entry Points to Shallow Dolomite Aquifer
- Figure 14: Riverwalk Subdivision Wells Tested for Blue Dye
- Figure 15: Blue Dye Migration Scenario

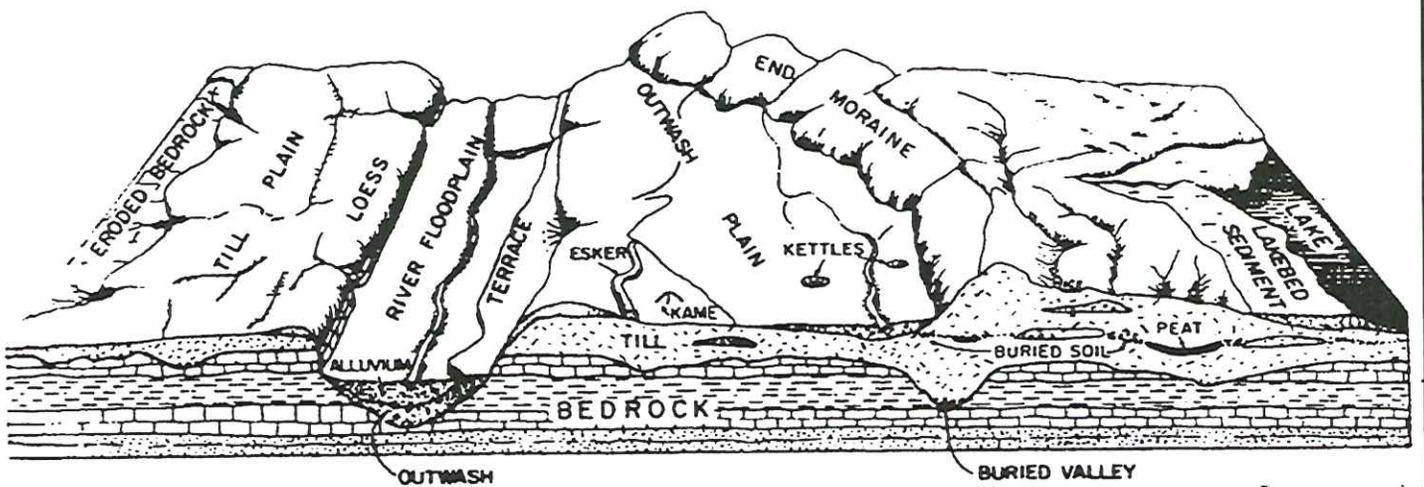


SCALE:
1" = 1000'

250' 500' 1000'

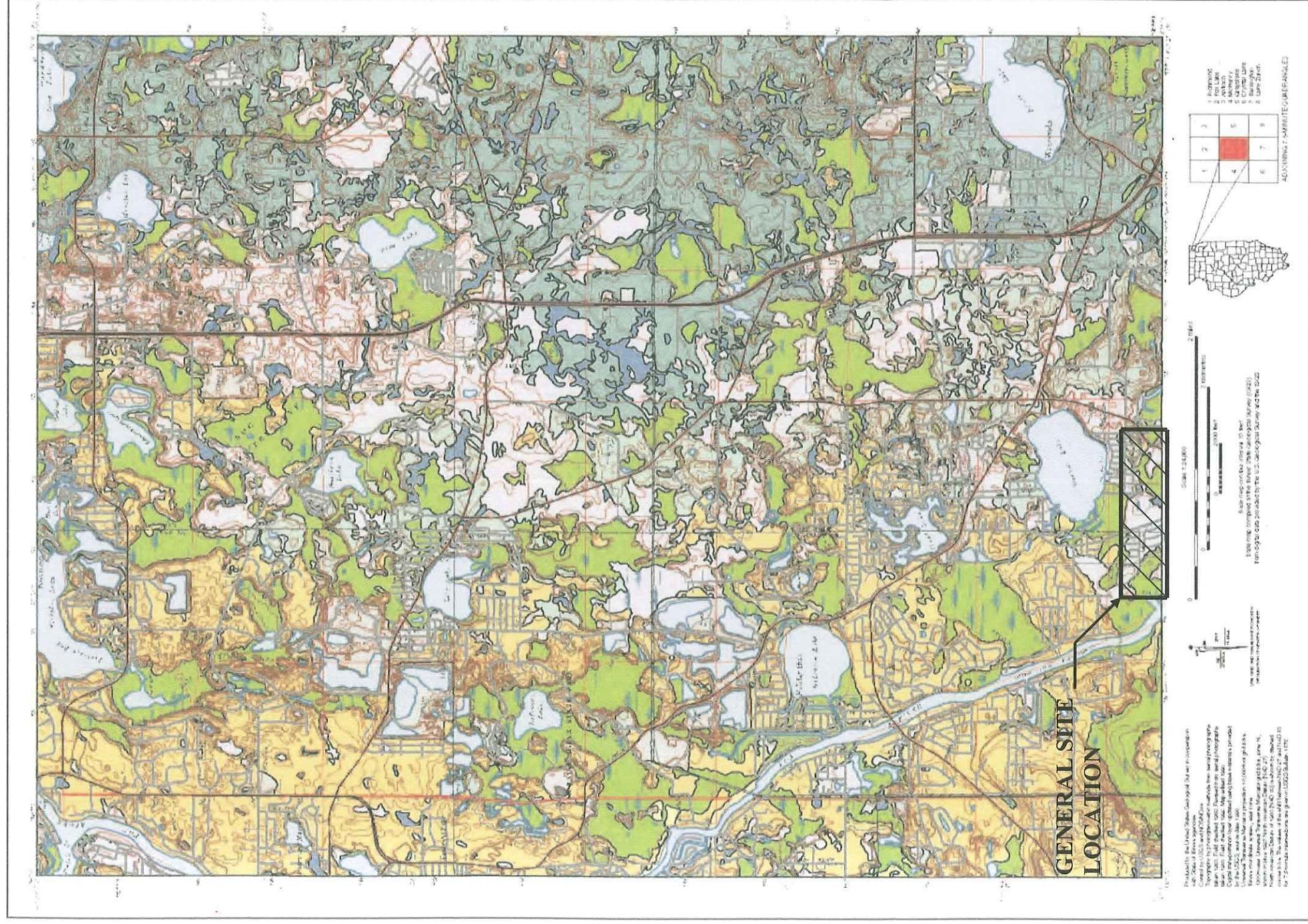
(U.S.G.S Topographic Quadrangles for
Wauconda (1998) and Barrington (1993))

Figure 1: Site Location.



(Piskin, 1975)

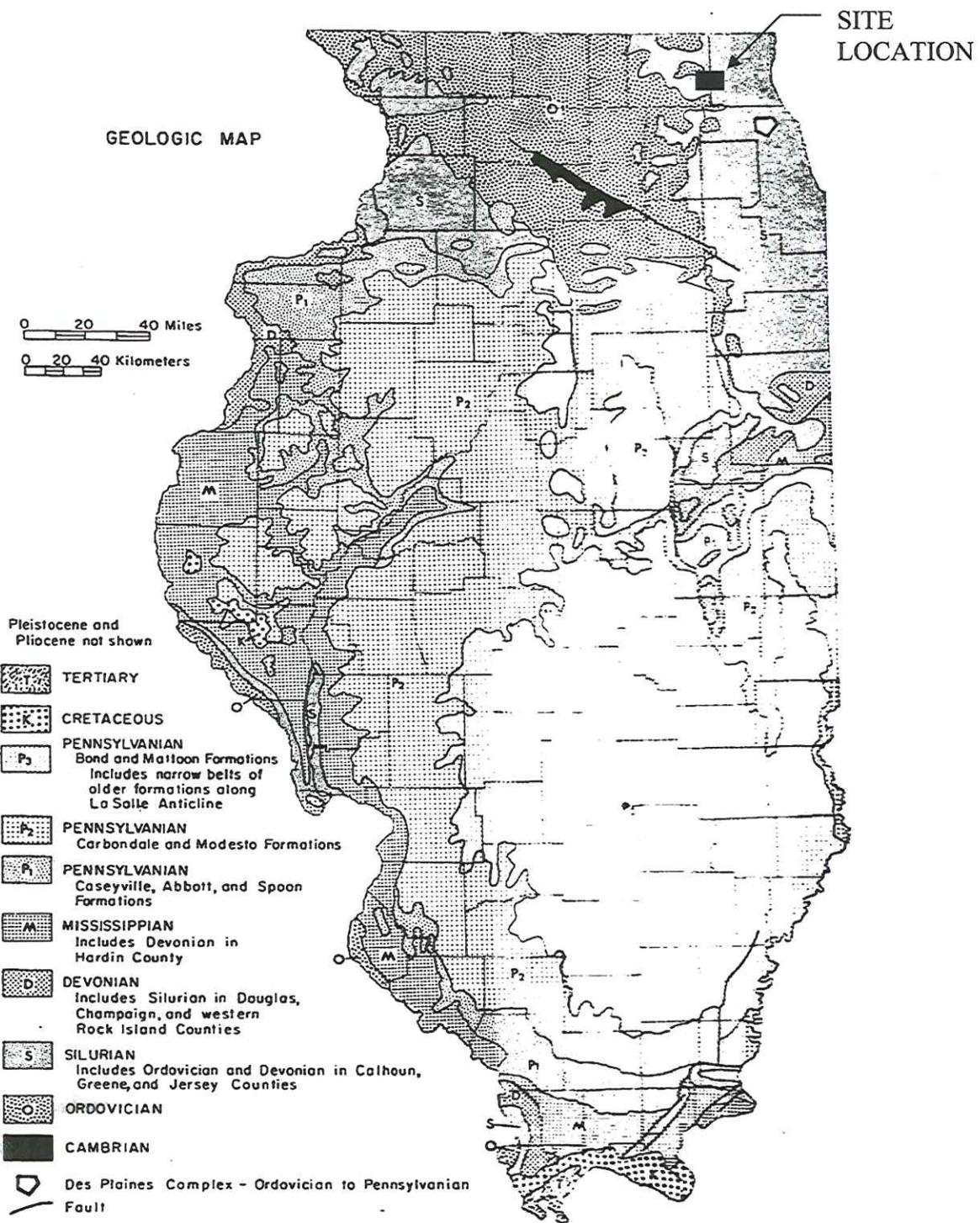
Figure 2: Idealized Relationship of Glacial and Alluvial Deposits to Landforms and Bedrock Surfaces.



(Stumpf, Hansel and Barnhardt, 2006)

LITHOSTRATIGRAPHIC UNIT	MATERIAL AND INTERPRETATION
Hudson Episode (postglacial)	Land disturbed by human activities; includes fill for transportation networks and excavations such as gravel pits.
Disturbed Lard (Human modified)	
Candia Formation	Silt and clay with sand lenses; postglacial river and stream sediment found on active floodplains; derived mainly from eroded forest and dune dunes. (Alluvial Deposits)
Payton Formation	Silt with varying amounts of sand and clay and occasional pebbles deposited in footslope positions of steeper slopes and in patchy depressions on floodplains and all plains. (Slope Deposits)
Grayslake Peat	Peat and muck accumulated in low-lying depressions, drainage ways, and on floodplains. (Organic Deposits)
Hudson and Wisconsin Episodes	Silt and clay massive to laminated; post-glacial and glacial lake deposits; silt and clay with sand and gravel lenses; major sandbars and some modern alluvium in the subsurface may be interglacial till dune deposits. (Proglacial Lacustrine Deposits)
Equality Formation	
Wisconsin Episode	
Henry Formation	Fine to coarse-grained sand and gravel; bedrock glacial meltwater sediment found at the margin of major floodplains and on stream terraces and outwash aprons; thickness ranges from 30 to 100 feet; may be present at the surface as a thin layer of sand and gravel beneath a layer of clayey silt (unmodified till) or as a thin layer of sand and gravel beneath a layer of clayey silt (unmodified till). (Henry Tongue (Aqualter 2) and Henry Tongue (Aqualter 1) and Ashmore Tongue (Aqualter 1))
Henry Formation (Aqualter 3) unnamed tongue (Aqualter 3)	
Beverly Tongue (Aqualter 2)	
Ashmore Tongue (Aqualter 1)	
Wadsworth Formation	Silt and clay to silty clay diamict with beds of sand or gravel and silt and clayey zones; subglacial till, subglacial channel, and late deposits, and sediment first melted out on top of the glacier or along the ice margin. (Till)
Haeger Member, Lemont Formation	Very cobbly, sandy loam to silt loam diamict; subglacial and ice marginal deposits; commonly underlain by outwash sand and gravel of the Henry Formation (Beverly Tongue); may be intermixed with interstratified diamict of Wadsworth. (Till)
Tidwell Formation (Lemont Member)	Reddish brown clay loam to loam diamict; subglacial and ice marginal deposits; commonly underlain by outwash sand and gravel of the Henry Formation (Lemont Tongue). (Till)
Nonglacial (Pre-Quaternary)	
Silurian dolomite and Ordovician shale	Dolomite with chert lenses; may be overlain by thin shale unit. (Bedrock)

Figure 3: Glacial Drift Map – Wauconda Quadrangle



(Mikulic et al, 1985)

Figure 4: Composition of Bedrock Surface.



SCALE:
1" = 1000'

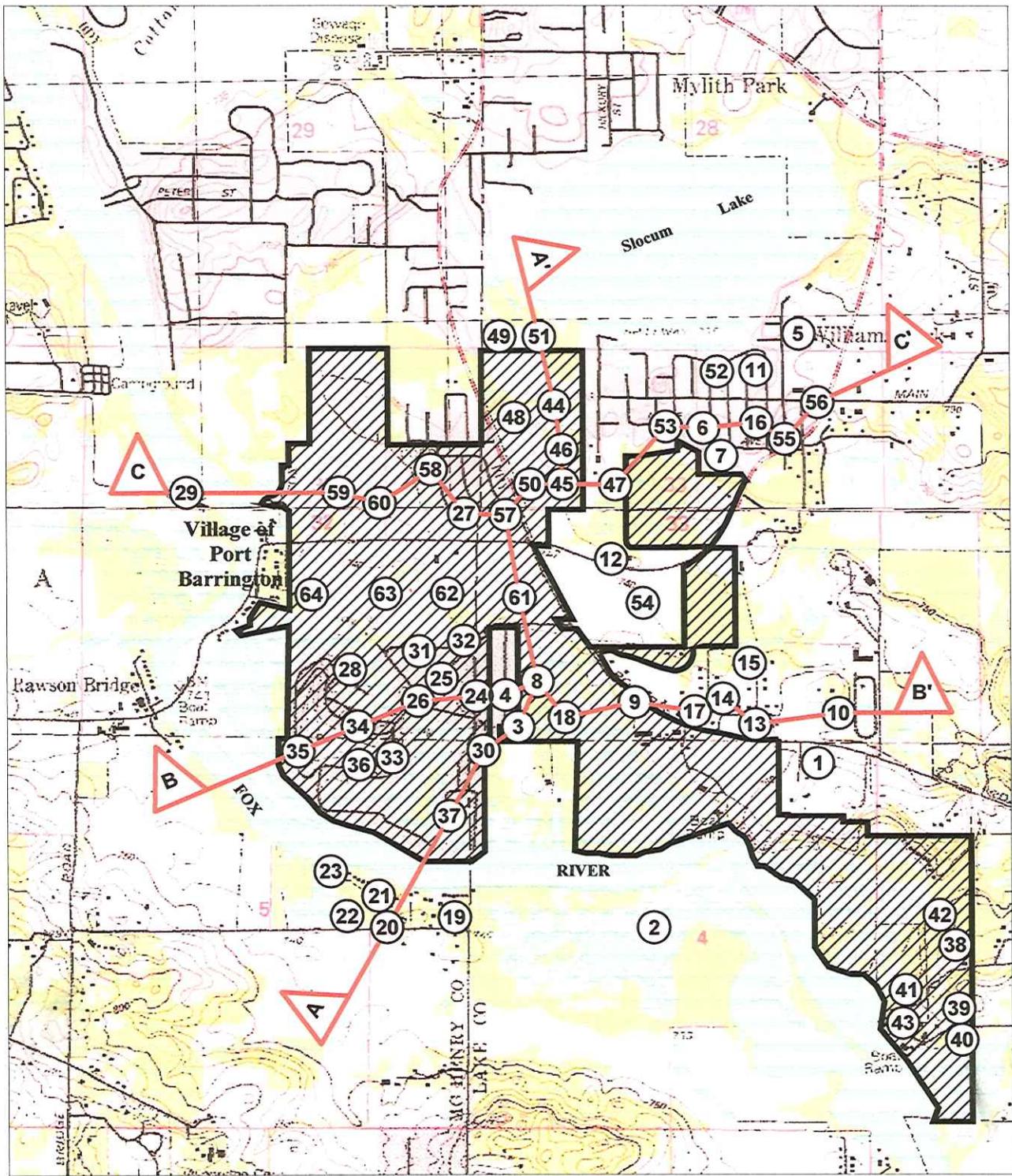


Figure 6a: Well Record Locations and Plan of Sections.

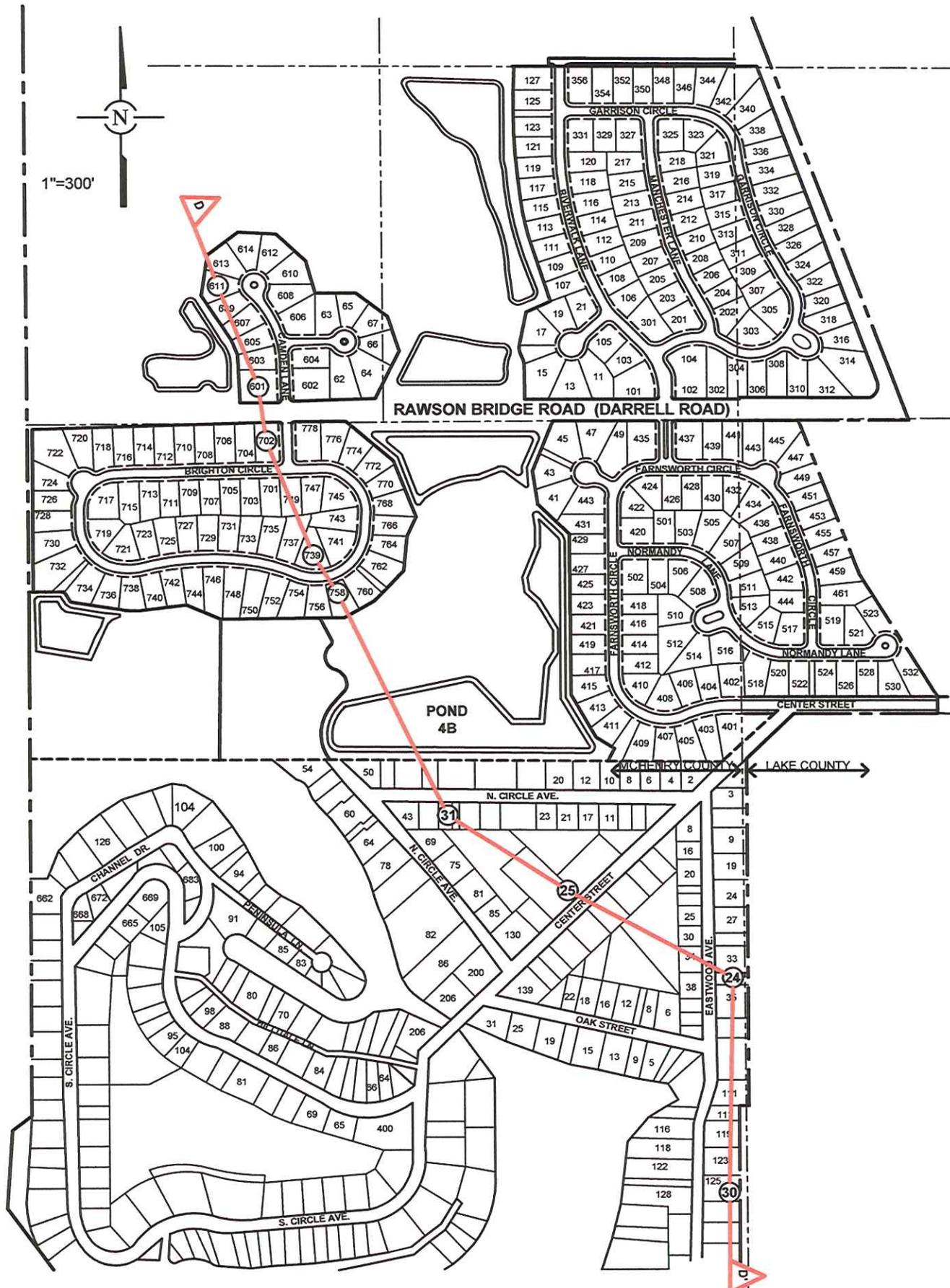
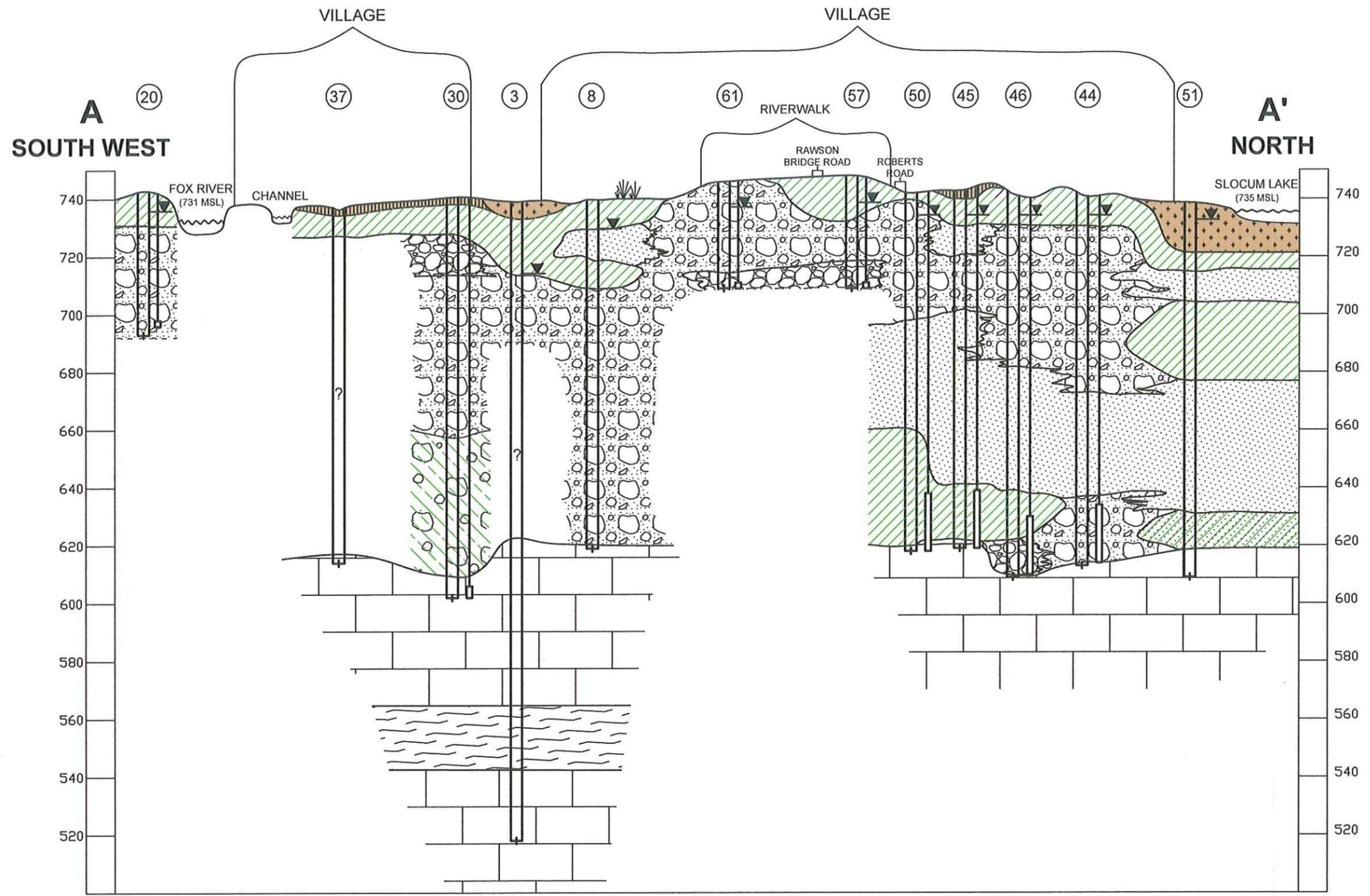


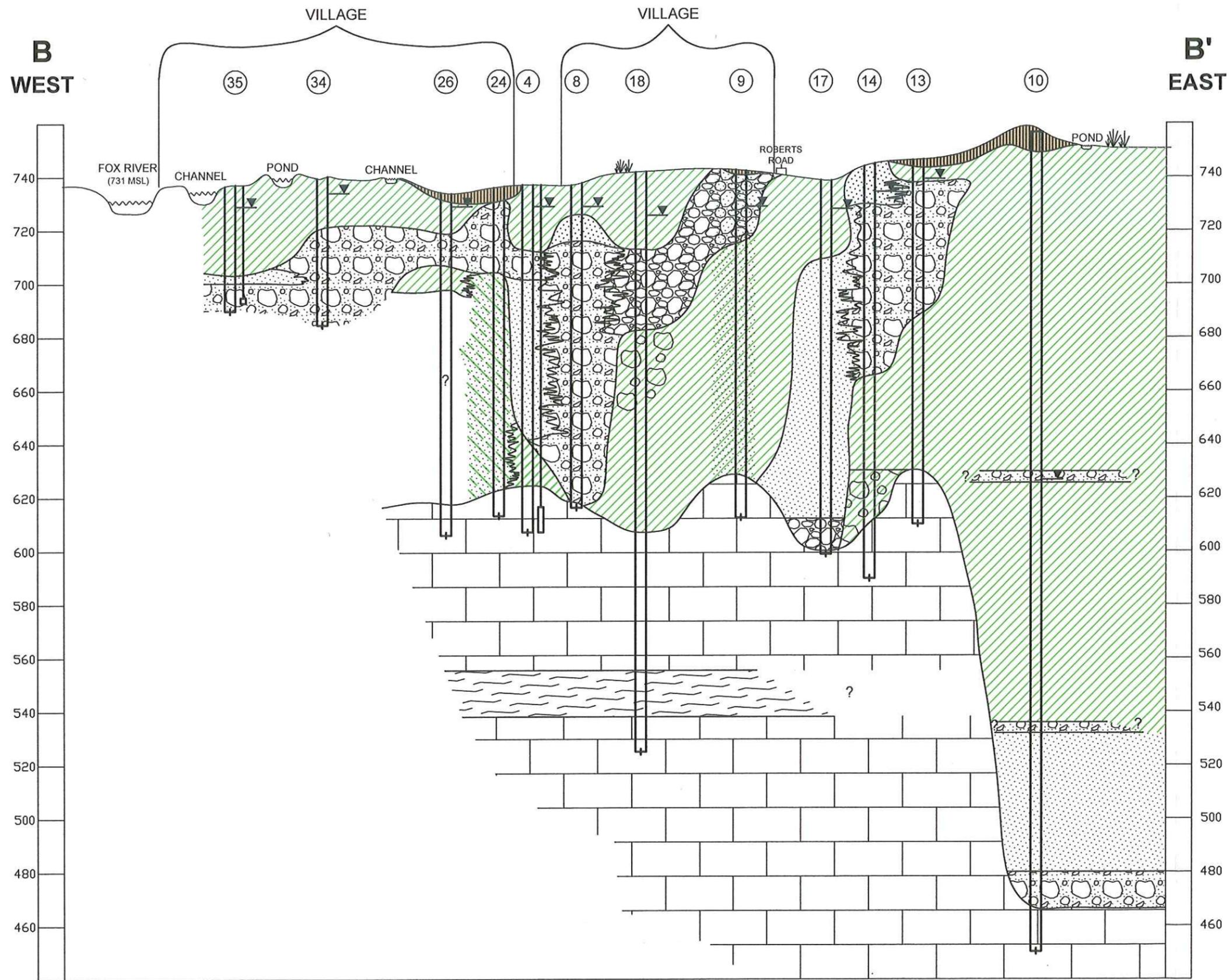
Figure 6b: Plan of Cross Section D - D'.



250' 500' 1000'
SCALE: 1" = 1000'

- LEGEND**
- Clay (Brown, Yellow, Blue)
 - Top Soil / Fill
 - Peet / Loam
 - Clay (Pink)
 - Gravel
 - Sand
 - Sand / Gravel
 - Dolomite
 - Shale
 - Well
 - Water Level at Completion

Figure 7: Cross Section A - A'.

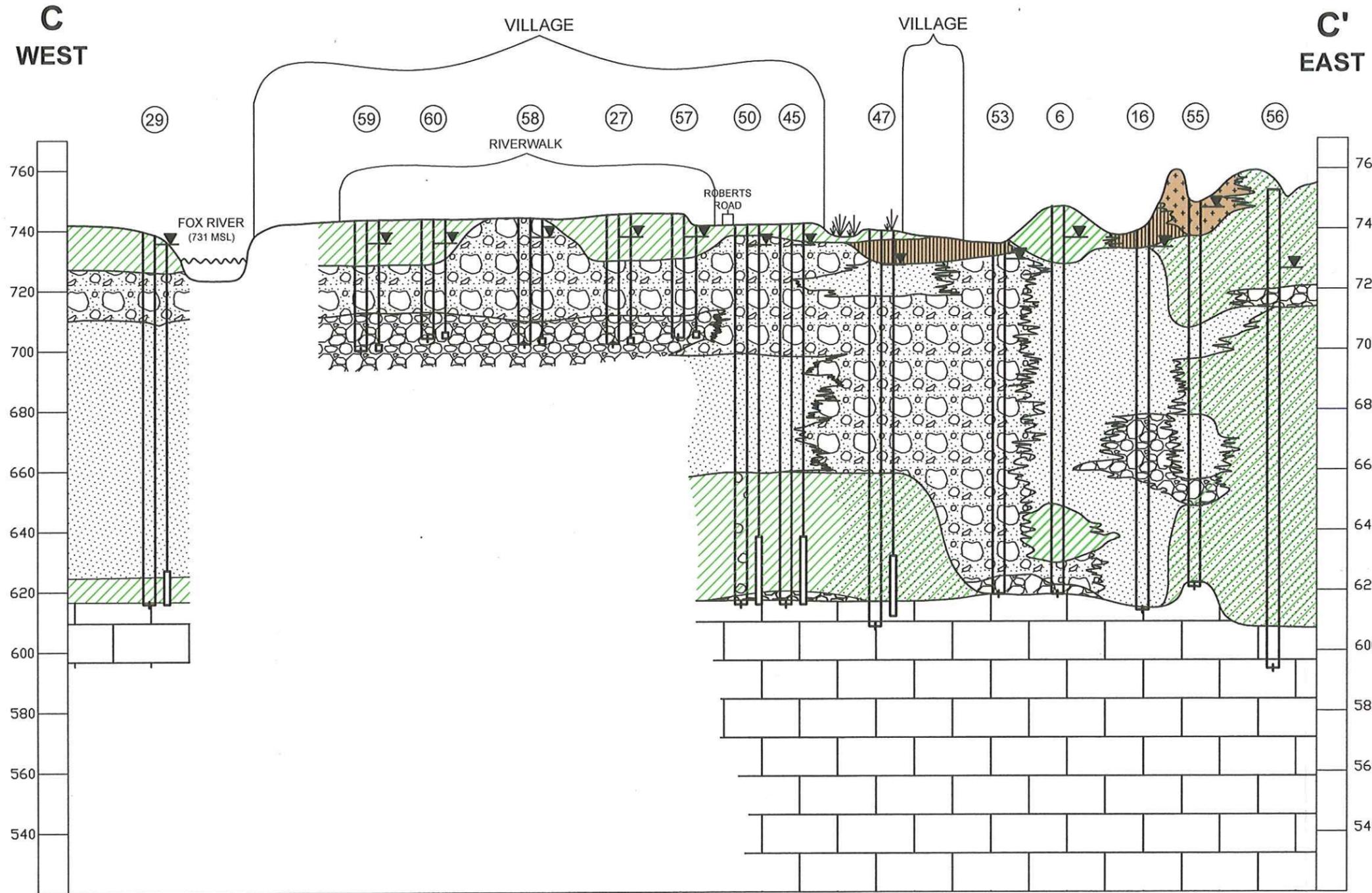


250' 500' 1000'
 SCALE: 1" = 1000'

LEGEND

	Clay (Brown, Yellow, Blue)
	Top Soil / Fill
	Peet / Loam
	Clay (Pink)
	Gravel
	Sand
	Sand / Gravel
	Dolomite
	Shale
	Well
	Water Level at Completion

Figure 8: Cross Section B - B'.

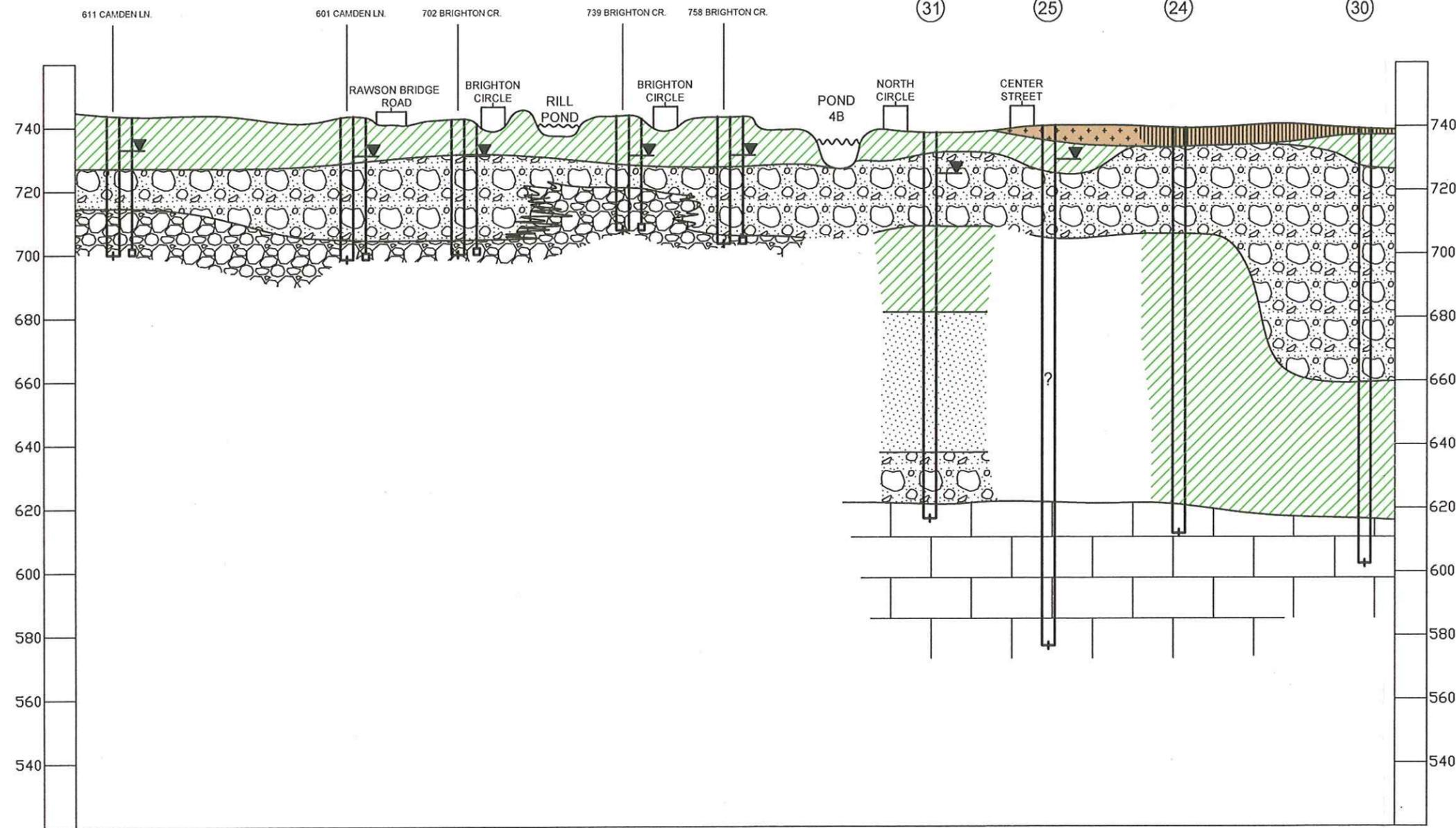


- LEGEND**
- Clay (Brown, Yellow, Blue)
 - Top Soil / Fill
 - Peet / Loam
 - Clay (Pink)
 - Gravel
 - Sand
 - Sand / Gravel
 - Dolomite
 - Shale
 - Well
 - Water Level at Completion

Figure 9: Cross Section C - C'.

D
NORTH

D'
SOUTH

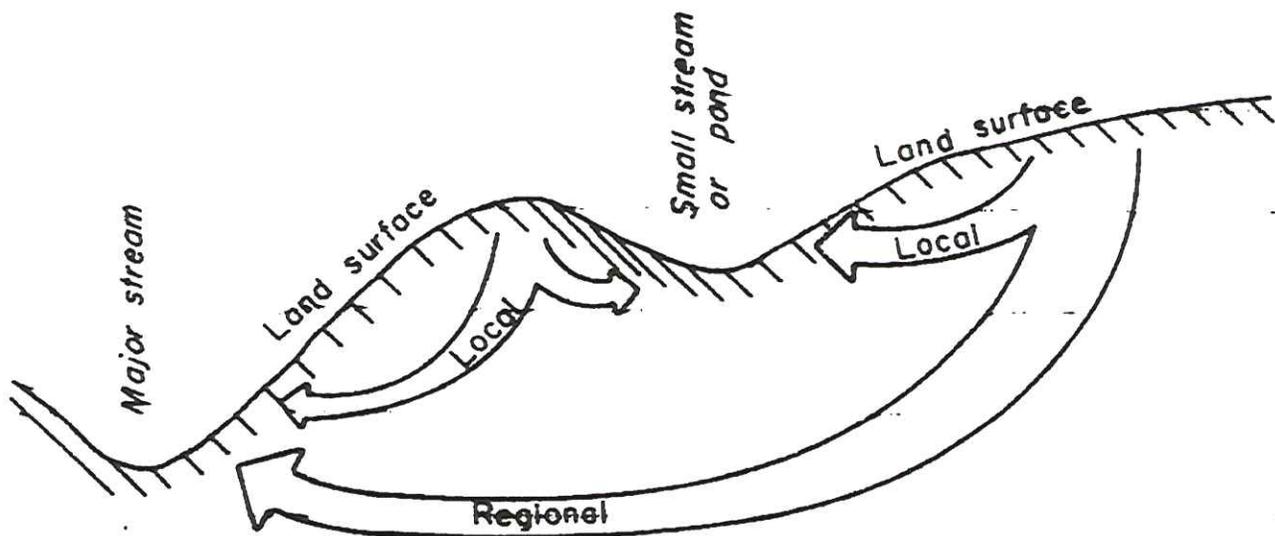


SCALE: 1" = 1000'

LEGEND

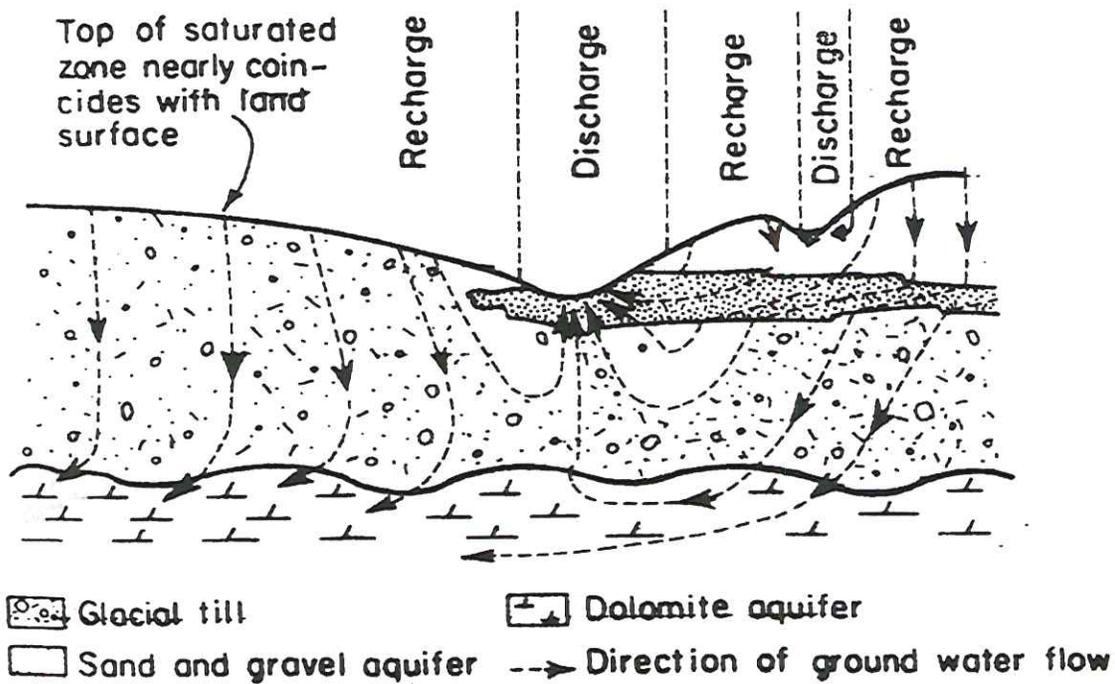
- Clay (Brown, Yellow, Blue)
- Top Soil / Fill
- Peet / Loam
- Clay (Pink)
- Gravel
- Sand
- Sand / Gravel
- Dolomite
- Shale
- Well
- Water Level at Completion

Figure 10: Cross Section D - D'.



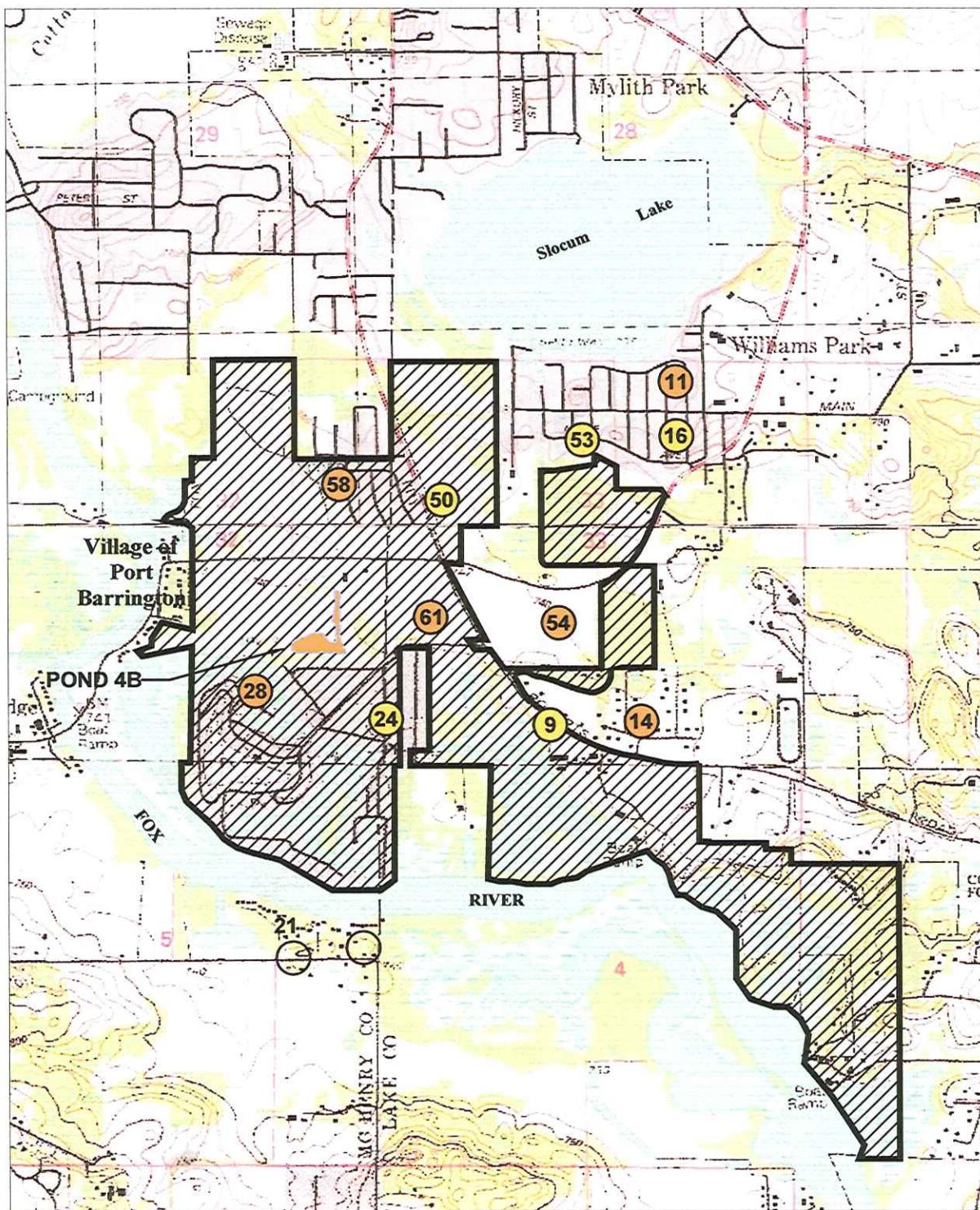
Bogner, Cartwright and Kempton, 1976

Figure 11a: Conceptual Diagram of Local and Regional Flow Systems in Northeastern Illinois.



Bogner, Cartwright and Kempton, 1976

Figure 11b: Hypothetical Flow System.




 SCALE:
 1" = 1000'

 SAND AND GRAVEL AT GROUND SURFACE
  THIN CLAY ($\leq 4'$)

Figure 12: Potential Contaminant Entry Points to Sand and Gravel Aquifer.

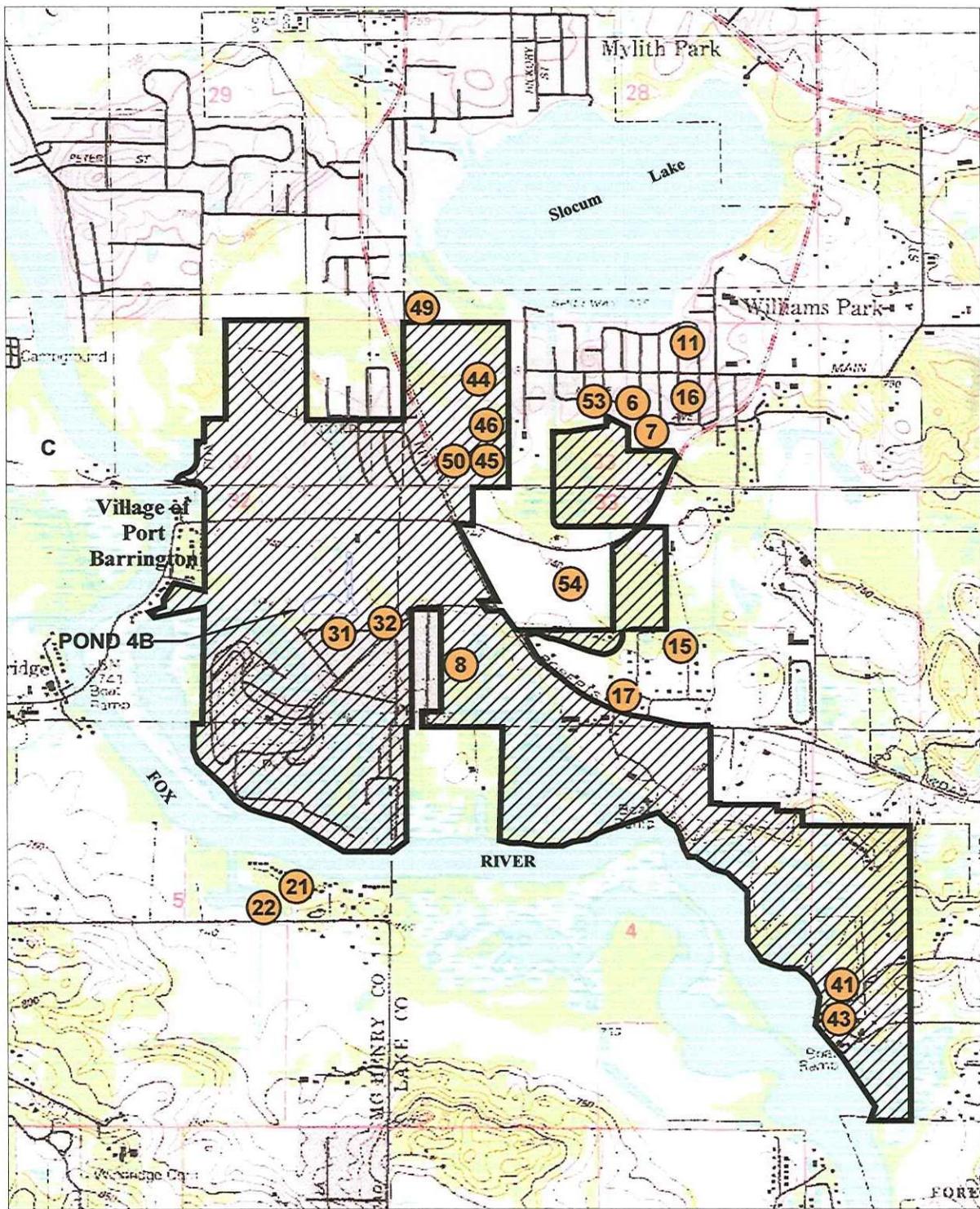


Figure 13: Potential Contaminant Entry Points to Shallow Dolomite Bedrock Aquifer.



Figure 14: Riverwalk Subdivision Wells Tested for Blue Dye.

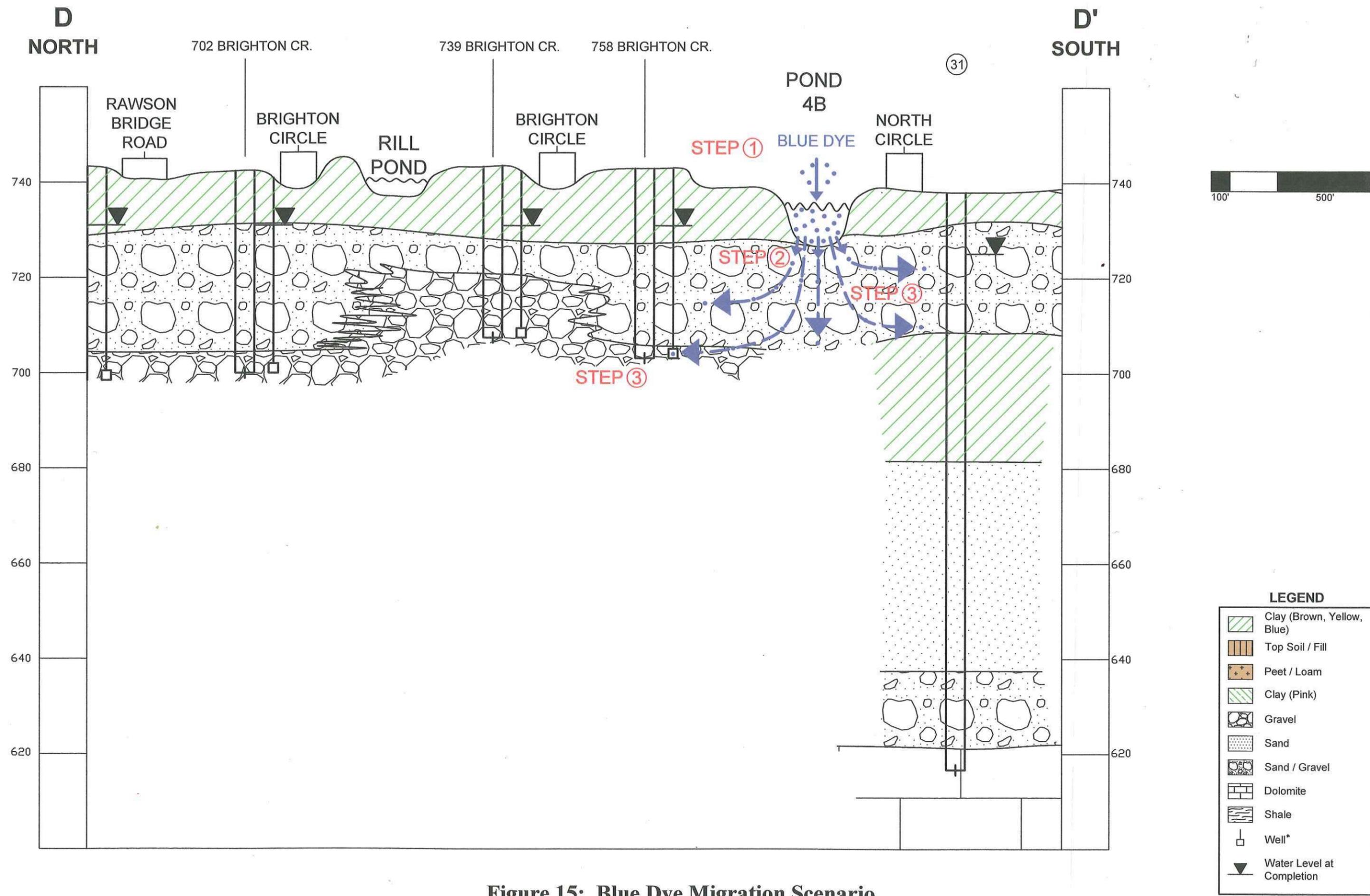


Figure 15: Blue Dye Migration Scenario.

APPENDIX B

WELL RECORDS

with Copy -
 Ill. Dept. of Public Health
 Yellow Copy - Well Contractor
 Blue Copy - Well Owner

INSTRUCTIONS TO RILL

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
 DEPARTMENT OF PUBLIC HEALTH, HEALTH PROTECTION, ENVIRONMENTAL HEALTH, 525
 WEST JEFFERSON, SPRINGFIELD, ILLINOIS 62761. DO NOT DETACH GEOLOGICAL/WATER
 SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

①
 ~755"

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. 5 in. Depth 154 ft.
 Curb material Buried Slab: Yes No
 b. Driven Drive Pipe Diam. in. Depth ft.
 c. Drilled Finished in Drift In Rock
 Tubular Gravel Packed
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building 30 Ft. Seepage Tile Field 80'
 Cess Pool Sewer (non Cast iron)
 Privy Sewer (Cast iron)
 Septic Tank 65 Barnyard
 Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes No

4. Date well completed 10-10-88

5. Permanent Pump Installed? Yes Date 10-13 No

Manufacturer RJ Type Sub Location
 Capacity 10 gpm. Depth of Setting 80 Ft.

6. Well Top Sealed? Yes No Type

7. Pitless Adapter Installed? Yes No

Manufacturer Williams Model Number BSOACVS
 How attached to casing? coupled

8. Well Disinfected? Yes No

9. Pump and Equipment Disinfected? Yes No

10. Pressure Tank Size 80 gal. Type cap
 Location Basement

11. Water Sample Submitted? Yes No

REMARKS:

Co. # 31370

P271812

IDPH 4.065
 KNB-1

IL 482-0126

10. Property owner R. Wilhelm & Assoc. Well No.
 Address Lot 3, Roberts Ct, Barr
 Driller R. Snelten License No. 072-003278
 11. Permit No. 006229 Date 9-27-88
 12. Water from Gravel Formation Gravel 13. County Lake
 at depth to ft. 29 Sec. 40N
 14. Screen: Diam. in. 0 Twp. 43N
 Length: ft. Slot Rge. 9E
 Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5"</u>	<u>PVC 281/100</u>	<u>0</u>	<u>154</u>

SHOW LOCATION IN SECTION PLAT
NW 1/4, NE 1/4
SW

According to 45865
7-124-26

16. Size Hole below casing: 5 in.
 17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 10 gpm for 3/2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Brown clay</u>	<u>0</u>	<u>15</u>
<u>Sand & Gravel</u>	<u>15</u>	<u>154</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED P. Snelten DATE 11/21/88

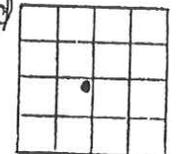
Well Construction Report

27
 N 738 m

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
 OF WELL COMPLETION AND SENT TO
 THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH
 525 WEST JEFFERSON STREET
 SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD
 101-00226
 License No. 092-00778

9. Driller John Huemann License No. _____
 10. Well Site Address Hickory Nut Grove Rd.
 11. Property Owner MCH. Co. Cons. Well No. _____
 12. Permit No. M+B WW 96-04-0255 Date Issued _____
 13. Location: 13-04-300-001 County Lake
For Forest Preserve Sec. 4.50
 Twp. 43N
 Rge. 9E



Show location
 in section
 plat
 NE NE SW
 other

1. Type of Well
 a. Bored _____ Hole Diam. 9 in. Depth 70 ft
 Buried Slab: Yes _____ No _____
 b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
 c. Drilled X Finished in Drift X In Rock _____
 (KIND) FROM (Ft.) TO (Ft.)
 d. Grout:

Bentonite		
grout		
slurry	0	66

14. Water from sand & gravel at depth 4 ft
 to 70 ft
 15. Casing and Liner Pipe

Diam. (in)	Kind and Weight	From (ft)	To (ft)
5	200 lb PVC 1120	0	66
	SDR 21 ASTM F 480-91 NSF WC		
	Certainteed solvent weld		

2. Well furnishes water for human consumption? Yes X No _____
 3. Date well drilled 5-24-96
 4. Permanent pump installed? Yes X Date 6-4-96 No _____
 Manufacturer Baker bubbler pump Type _____
 Location _____
 Capacity _____ gpm. Depth of setting 52' ft.
 5. Well top sealed? Yes X No _____ Type _____
 6. Pitless adapter installed? Yes _____ No X
 Manufacturer _____ Model No. _____
 How attached to casing? _____
 7. Well disinfected? Yes X No _____
 8. Pump and equipment disinfected Yes X No _____

16. Screen: Diam. 5 in, Length 4 in, Slot Size 20
 17. Size hole below casing 9 in. 18. Ground Elev. _____ ft msl.
 19. Static level 41 ft below casing top which is 1 ft. above ground level. Pumping level 46 ft, pumping gpm for 6 hours.

20. Earth Materials Passed Through

	Depth of Top	Depth of Bottom
topsoil	0	4
gravel & sand	4	70

JUN 1996
 Received
 Environmental
 Health Division

IMPORTANT NOTICE
 This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
 Do Not Use Felt Pen

Continue on separate sheet if necessary.
 Signed _____ Date 6-7-96

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

③
~738

**ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT**

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. 5 in. Depth 220 ft.
Curb material Buried Slab: Yes No
- b. Driven Drive Pipe Diam. in. Depth ft.
- c. Drilled Finished in Drift In Rock
Tubular Gravel Packed
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building Ft. Seepage Tile Field
- Cess Pool Sewer (non Cast iron)
- Privy Sewer (Cast iron)
- Septic Tank Barnyard
- Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes No

4. Date well completed 2/7/79

5. Permanent Pump Installed? Yes Date 2/27/79 No

Manufacturer Aermotor Type sub Location

Capacity 5 gpm. Depth of Setting 160 Ft.

6. Well Top Sealed? Yes No Type

7. Pitless Adapter Installed? Yes No

Manufacturer Baker Model Number snappy

How attached to casing? compression

8. Well Disinfected? Yes No

9. Pump and Equipment Disinfected? Yes No

10. Pressure Tank Size 17 gal. Type captive air

Location

11. Water Sample Submitted? Yes No

REMARKS:

10. Property owner Howard LeBeau Well No.

Address 24 Geraldine Lane, Barrington, IL 60010

Driller William M. Boetsch License No. 92-436

11. Permit No. 81187 Date 10/25/78

12. Water from limestone 13. County Lake

Formation
at depth 195 to 220 ft.

Sec. 33, 6u

14. Screen: Diam. in.

Twp. 44N

Length: ft. Slot

Rge. 9E

Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>pvc</u>	<u>1</u>	<u>104</u>

SHOW LOCATION IN SECTION PLAT
lot 24 Fox River Estates SW 75'x160' 5/4 1/2 SW-SW

16. Size Hole below casing: 5 in.

17. Static level 25 ft. below casing top which is 1 ft. above ground level. Pumping level 125 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>black loam</u>	<u>6</u>	<u>6</u>
<u>yellow clay</u>	<u>10</u>	<u>16</u>
<u>blue clay</u>	<u>9</u>	<u>25</u>
<u>heavy gravel, sand</u>	<u>25</u>	<u>50</u>
<u>blue clay, sand, boulders</u>	<u>65</u>	<u>115</u>
<u>limestone, boulders, sand</u>	<u>10</u>	<u>125</u>
<u>limestone</u>	<u>50</u>	<u>175</u>
<u>brown shale</u>	<u>20</u>	<u>195</u>
<u>limestone bedrock</u>	<u>25</u>	<u>220</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Wm. M. Boetsch DATE 2/28/79

P 330860

TYPED OR PRESS FIRMLY WITH BLACK INK PEN
COMPLETE WITHIN 30 DAYS OF WELL COMPLETION
AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT

Well Constructed report 17-15-0-57

Date 8/12/99 (4)
N738

GEOLOGICAL & WATER SURVEY WELL RECORD

1. Type of Well: a. **Driven Well**: Casing diam. _____ in. Depth _____ ft.
 b. **Bored Well**: Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. **Drilled Well**: PVC casing Formation packer set at depth of _____ ft.
 Hole Diameter 5 in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
Bentonite			121'	0'	80'

- d. **Drilled Well**: Steel Casing - - - Mechanically Driven [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
N.A.					

- c. Well finished within: [] Unconsolidated Materials [x] Bedrock

Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)
N.A.			

2. Well Use: [x] Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other _____
 3. Date Well Completed: 8/10/99 Well Disinfected [x] Yes [] No
 Driller's estimated well yield 100 gpm
 4. Date Permanent Pump Installed 8/10/99
 5. Pump Capacity 10 gpm Set at (depth) 60 ft.
 6. Pitless Adapter Model and Manufacturer: Williams B50ACVS
 7. Well Cap Type and Manufacturer: Williams vented
 8. Pressure Tank: Working Cycle _____ gals. Captive Air: [x] Yes [] No
 9. Pump System Disinfected: [x] Yes [] No
 10. Name of Pump Company: A & C Snelten, Inc.

11. Pump Installer: Stephen A. Snelten, License # 102-003167
 12. Stephen A. Snelten License # 102-003167
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 25 W. Jefferson Street
 Springfield, IL 62761

P-318487

DO Not write on these lines

COUNTY No. 42014

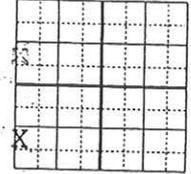
IMPORTANT NOTICE: This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.
 L 482-0126 rev. 12/98

13. Property Owner: Mary Zwiefelhofer Well # _____
 14. Driller: A & C Snelten, Inc. License # 102-003175 15.
 Name of Drilling Company: Cornelius J. Snelten, III 16.
 Permit No. ww-99-15-0657 Date Issued _____
 17. Date Drilling Started 8/6/99
 18. Well SITE address 26174 Geraldine Lane, Barrington, IL. 19.
 Township Name Wauconda Land ID # 09-33-301-006 20.
 Subdivision Name Fox River Estates Lot # 19 21.
 Location: a. County Lake

- b. Township 44N Range 9E Section 33
 c. NW Quarter SW Quarter SW Quarter
 d. coordinates: _____ Site Elevation: _____ ft.(msl)

22. Casings, Liners*, & Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5 in.	PVC SDR21	glue	N.A.	1+	109'
5 in.	Bl. stl	weld	N.A.	109'	130'



For Survey Use Only

- (*) _____
 (List reason for liner, type of upper and lower seals installed)
 23. Water from Limestone at a depth of 121' ft. to 130' ft.
 a. static water level 10' ft. below casing which is 12 in. above ground
 b. pumping level is 60 ft. pumping 10 gpm after pumping for 4 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
Yellow clay	0'	6'
Grey clay	6'	26'
Gravel	26'	38'
Sand	38'	90'
Grey sandy clay	90'	112'
Gravel broken lime	112'	113'
Grey sandy clay	113'	116'
Limestone gravel	116'	121'
Limestone	121'	130'

(If DRY HOLE, fill out log & indicate how hole was sealed)

Stephen A. Snelten
 Licensed Water Well Contractor Signature

102-003175
 License Number

Wh... pies
 Ill. ... of Public Health
 Yellow Copy: Well Contractor
 Golden Copy: Well Owner

755

Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
 OF WELL COMPLETION AND SENT TO
 THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH
 525 WEST JEFFERSON STREET
 SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller R. SNETTEN License No. 92 002278
 10. Well Site Address 26970 N. GRACE, WAUCONDA
 11. Property Owner ROSENDO ARREDONDO Well No. _____
 12. Permit No. 015042 Date Issued 10/3/89
 13. Location: NW, NW, NE County LAKE
 Sec. 33.44
 Twp. 44N
 Rge. 9E

WW # 89-15-1630

Show location
 in section
 plat
NW, NW, NE

1. Type of Well
 a. Bored _____ Hole Diam. _____ in. Depth _____ ft
 Buried Slab: Yes _____ No _____
 b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
 c. Drilled X Finished in Drift X In Rock _____
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

14. Water from _____ at depth _____ ft to _____ ft

15. Casing and Liner Pipe		to _____ ft	
Diam.(in)	Kind and Weight	From (ft)	To (ft)
5	PVC 281#/100'	0	100

2. Well furnishes water for human consumption? Yes X No _____
 3. Date well drilled 9/26/89
 4. Permanent pump installed? Yes X Date 11/18/89 No _____
 Manufacturer RED JACKET Type SUB
 Location WELL
 Capacity 10 gpm. Depth of setting 40 ft.
 5. Well top sealed? Yes X No _____ Type _____
 6. Pitless adapter installed? Yes X No _____
 Manufacturer WILLIAMS Model No. B50ACVS
 How attached to casing? COUPLED
 7. Well disinfected? Yes X No _____
 8. Pump and equipment disinfected Yes X No _____

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____
 17. Size hole below casing _____ in. 18. Ground Elev. _____ ft msl.
 19. Static level 1 ft below casing top which is 1 ft. above ground level. Pumping level 35 ft, pumping gpm for 2 hours.

20. Earth Materials Passed Through

	Depth of Top	Depth of Bottom
BLACK PEAT	0	21
BLUE CLAY	21	30
SAND & GRAVEL	30	98
GRAVEL	98	100

OK

Continue on separate sheet if necessary.

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

P232877

PRESS FIRMLY WITH BLACK PEN OR TYPE
 Do Not Use Felt Pen

Signed Richard Snetten Jr Date 5-22-90

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

⑥
2748

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. 5 in. Depth 130 ft.
Curb material Buried Slab: Yes No
- b. Driven Drive Pipe Diam. 5 in. Depth ft.
- c. Drilled Finished in Drift In Rock
Tubular Gravel Packed
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building Ft. Seepage Tile Field 75'
- Cess Pool Sewer (non Cast iron)
- Privy Sewer (Cast iron)
- Septic Tank 50' Barnyard
- Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes No

4. Date well completed 9/28/82

5. Permanent Pump Installed? Yes Date 10/6/82 No

Manufacturer Red Bucket Type Sub Location

Capacity 20 gpm. Depth of Setting 40 Ft.

6. Well Top Sealed? Yes No Type

7. Pitless Adapter Installed? Yes No

Manufacturer Williams Model Number

How attached to casing? Coupled

8. Well Disinfected? Yes No

9. Pump and Equipment Disinfected? Yes No

10. Pressure Tank Size 50 gal. Type Captive

Location Basement

11. Water Sample Submitted? Yes No

REMARKS:

10. Property owner John Kray Sr. Well No.

Address 26870 N. GENESSE, WAUSAU, ILL.

Driller RICHARD SMITTON License No. 92-227

11. Permit No. 104592 Date 8/20/82

12. Water from GRAVEL 13. County LAKE

Formation GRAVEL

at depth to ft. Sec. 334g

14. Screen: Diam. in. Twp. 44N

Length: ft. Slot Rge. 9E

Elev.

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>Steel 15#</u>	<u>0</u>	<u>130</u>

SHOW LOCATION IN SECTION PLAT
SW NW NE

16. Size Hole below casing: 5 in.

17. Static level 13 ft. below casing top which is 1 ft. above ground level. Pumping level 25 ft. when pumping at 15 gpm for 8 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Brown clay</u>	<u>0</u>	<u>16</u>
<u>" SAND</u>	<u>16</u>	<u>25</u>
<u>Grey "</u>	<u>25</u>	<u>100</u>
<u>Blue clay</u>	<u>100</u>	<u>115</u>
<u>SAND + GRAVEL</u>	<u>115</u>	<u>127</u>
<u>GRAVEL</u>	<u>127</u>	<u>130</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Richard Smitton DATE 10/30/82

White & Pink Copies:
 Yellow Copy: Well Contractor
 Golden Copy: Well Owner

Well Construction Report

(7)
 N745

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
 OF WELL COMPLETION AND SENT TO
 THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH
 525 WEST JEFFERSON STREET
 SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller R. SNETEN License No. 092-0022
 10. Well Site Address LOT 457 MAPLE, WAUCONDA, IL
 11. Property Owner RON SIGGEMAN Well No. _____
 12. Permit No. ISD 90-15-1917 Date Issued 1-14-91
 13. Location: NW, SW, NE County LAKE
 Sec. 33
 Twp. 44N
 Rge. 9E

1. Type of Well
- a. Bored _____ Hole Diam. _____ in. Depth _____ ft
 Buried Slab: Yes _____ No _____
- b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
- c. Drilled X Finished in Drift _____ In Rock X
- | (KIND) | FROM (Ft.) | TO (Ft.) |
|--------|------------|----------|
| | | |
| | | |
| | | |
- d. Grout:
2. Well furnishes water for human consumption? Yes X No _____
3. Date well drilled 1-29-91
4. Permanent pump installed? Yes X Date 2-1-91 No _____
 Manufacturer RED JACKET Type SUB
 Location WELL
 Capacity 12 gpm. Depth of setting 120' ft.
5. Well top sealed? Yes X No _____ Type VENTED CAP
6. Pitless adapter installed? Yes X No _____
 Manufacturer WILLIAMS Model No. B50ACVS
 How attached to casing? COUPLED
7. Well disinfected? Yes X No _____
8. Pump and equipment disinfected Yes X No _____

14. Water from _____ at depth _____ ft

15. Casing and Liner Pipe		to _____ ft	
Diam. (in)	Kind and Weight	From (ft)	To (ft)
<u>5</u>	<u>PVC</u>	<u>0</u>	<u>130</u>

Show location in section plat
NW, SW, NE

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____

17. Size hole below casing 5 in. 18. Ground Elev. _____ ft msl

19. Static level 1 ft below casing top which is 1 ft. above ground level. Pumping level 65 ft, pumping 10 gpm for 3 hours

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
<u>BROWN CLAY</u>	<u>0</u>	<u>10</u>
<u>PEAT</u>	<u>10</u>	<u>50</u>
<u>SAND AND GRAVEL</u>	<u>50</u>	<u>130</u>
<u>ROCK</u>	<u>130</u>	<u>160</u>

IMPORTANT NOTICE
 This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. P230516

PRESS FIRMLY WITH BLACK PEN OR TYPE
 Do Not Use Felt Pen

Continued on separate sheet if necessary.
 Signed R. Sneten Date 2-2-91

White Copy - Public Health
 Yellow Copy - Well Contractor
 Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
 JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
 SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

8
 N 738

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 WELL CONSTRUCTION REPORT

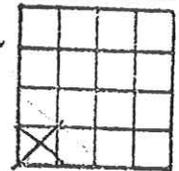
GEOLOGICAL AND WATER SURVEYS WELL RECORD

LOT 15 FOX RIVER ESTATES

1. Type of Well
 a. Dug Bored Hole Diam. 5 in. Depth 120 ft.
 Curb material Buried Slab: Yes No
 b. Driven Drive Pipe Diam. in. Depth ft.
 c. Drilled Finished in Drift In Rock
 Tubular Gravel Packed
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Slurry	0	118

10. Property owner L & M BLDGS. Well No. _____
 Address Box 87 ISLAND LAKE
 Driller MARTIN MURPHY & SON License No. 1027
 11. Permit No. 62546 Date JUNE 23, 1977
 12. Water from Limestone Formation License No. _____
 13. County LAKE
 at depth _____ to _____ ft. Sec. 33
 14. Screen: Diam. None in. Twp. 44N
 Length: _____ ft. Slot _____ Rge. 9E
 Elev. _____



SHOW LOCATION IN SECTION PLAT
 Lot 15, Fox River
 East, 8th
 SW SW

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	BLK	0	118

2. Distance to Nearest:
 Building 75 Ft. Seepage Tile Field 75+
 Cess Pool _____ Sewer (non Cast iron) _____
 Privy _____ Sewer (Cast iron) _____
 Septic Tank 50+ Barnyard _____
 Leaching Pit _____ Manure Pile _____
 3. Well furnishes water for human consumption? Yes No
 4. Date well completed 8/5/77
 5. Permanent Pump Installed? Yes Date 8/24/77 No
 Manufacturer RED JKT Type 1/2 Location WELL
 Capacity 10 gpm. Depth of Setting 40 Ft.
 6. Well Top Sealed? Yes No Type WATER TITE
 7. Pitless Adapter Installed? Yes No
 Manufacturer Merrill Model Number SPK
 How attached to casing? Bolt on
 8. Well Disinfected? Yes No
 9. Pump and Equipment Disinfected? Yes No
 10. Pressure Tank Size 42 gal. Type 202 W-X
 Location Basement
 11. Water Sample Submitted? Yes No

16. Size Hole below casing: _____ in.
 17. Static level 8 ft. below casing top which is _____ ft.
 above ground level. Pumping level 40 ft. when pumping at 15
 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW CLAY	0	10
SAND	10	20
grey CLAY	20	30
SAND & GRAVEL	30	118
Limestone	118	120

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED James Hatching DATE 8/15/77

Well Construction Report

10
2755

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF WELL COMPLETION AND SENT TO THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH 525 WEST JEFFERSON STREET SPRINGFIELD, ILLINOIS 62761



GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller BEACH PUMPS WELL License No. 092-0068
 10. Well Site Address 75 BLUE JAY LANE HAWTHORNE ILL
 11. Property Owner PAUL PSENKA Well No. _____
 12. Permit No. ISD 95-07-0320 Date Issued 7/26/95
 13. Location: PAUL PSENKA County LAKE
 Sec. 33.2A
 Twp. 44N
 Rge. 9E

1. Type of Well
 a. Bored _____ Hole Diam. _____ in. Depth _____ ft
 Buried Slab: Yes _____ No _____
 b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
 c. Drilled X Finished in Drift _____ In Rock X

(KIND)	FROM (Ft.)	TO (Ft.)
BENTONITE	0	20
& CLAY SLURRY		

- d. Grout: _____
 2. Well furnishes water for human consumption? Yes X No _____
 3. Date well drilled 8/17/95
 4. Permanent pump installed? Yes X Date 8/18/95 No _____
 Manufacturer AEMOTOR Type SUBM
 Location _____
 Capacity 8 gpm. Depth of setting 209' ft.
 5. Well top sealed? Yes X No _____ Type _____
 6. Pitless adapter installed? Yes X No _____
 Manufacturer Williams Model No. BSD400
 How attached to casing? _____
 7. Well disinfected? Yes X No _____
 8. Pump and equipment disinfected Yes X No _____

14. Water from LIMESTONE at depth 295 ft
 15. Casing and Liner Pipe to 307 ft

Diam. (in)	Kind and Weight	From (ft)	To (ft)
5"	ASTM A-53	0	295
	T/C TOE		
	15 lbs PER FT		

 Show location in section plat
 SW, SE, SE
 LOT 24
 LAKE
 LORRAINE E

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____
 17. Size hole below casing 5 in. 18. Ground Elev. _____ ft msl.
 19. Static level 130 ft below casing top which is 1 ft. above ground level. Pumping level 185 ft, pumping gpm for 3 hours.

Earth Materials Passed Through	Depth of Top	Depth of Bottom
FILL & BLACK DIRT / YELLOW CLAY / BLUE CLAY	0	6 14
SAND & GRAVEL	124	129
BLUE CLAY	129	217
SAND & GRAVEL	217	221
BLUE CLAY	221	230
FINE SAND	230	275
M GARY SAND	275	290
RUBBLE	290	295
LIMESTONE	295	307

Continue on separate sheet if necessary.

IMPORTANT NOTICE

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PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

Signed Kenneth O. Boyce Date 8/18/95

2270877 ✓

White Copy: Ink Copies:
 Yellow Copy: Well Contractor
 Golden Copy: Well Owner

Well Construction Report

⑪
 N739

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
 OF WELL COMPLETION AND SENT TO
 THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH
 525 WEST JEFFERSON STREET
 SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller Richard Rosset License No. 092-00369
 10. Well Site Address 28316 Main St.
 11. Property Owner Richard Muhl Well No. 2
 12. Permit No. WW 94-15-1305 Date Issued 12/13/94
 13. Location: County Lake
 Sec. 33
 Twp. 44N
 Rge. 9E

1. Type of Well
 a. Bored Hole Diam. 5 in. Depth 126 ft
 Buried Slab: Yes No
 b. Driven Drive Pipe Diam. 5 in. Depth ft
 c. Drilled Finished in Drift In Rock
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
<u>None</u>		

14. Water from Sand at depth 129 ft
 to 126 ft
 15. Casing and Liner Pipe

Diam. (in)	Kind and Weight	From (ft)	To (ft)
<u>5"</u>	<u>galv steel 15</u>	<u>18" above</u>	<u>129'</u>
	<u>Lbs Per Ft,</u>	<u>grade</u>	

Show location
 in section
 plat

2. Well furnishes water for human consumption? Yes No
 3. Date well drilled Jan, 1995
 4. Permanent pump installed? Yes No Date Jan 12, 1995
 Manufacturer Red Jacket Type Subi
 Location in well
 Capacity 15 gpm. Depth of setting 80 ft.
 5. Well top sealed? Yes No Type Baker well cap
 6. Pitless adapter installed? Yes No
 Manufacturer Wells Model No. 5"x1"
 How attached to casing? U bolt
 7. Well disinfected? Yes No
 8. Pump and equipment disinfected Yes No

16. Screen: Diam. 4 1/2 in, Length 48 in, Slot Size 15
 17. Size hole below casing 5 in. 18. Ground Elev. ft msl.
 19. Static level 7 ft below casing top which is 1 1/2 ft. above
 ground level. Pumping level 48 ft, pumping 15 gpm for 3 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
<u>black Peat like muck</u>	<u>0</u>	<u>10'</u>
<u>super fine sand</u>	<u>10'</u>	<u>30'</u>
<u>Fine sand with water</u>	<u>30'</u>	<u>50'</u>
<u>Sand some trace of clay</u>	<u>50'</u>	<u>85'</u>
<u>Medium fine sand</u>	<u>85'</u>	<u>195'</u>
<u>shelf of limestone & sand</u>	<u>125'</u>	<u>126'</u>

Continue on separate sheet if necessary
 Shelf of limestone & sand

Signed Richard Rosset Date Jan. 15, 1995.

IMPORTANT NOTICE

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 that is necessary to accomplish the statutory purpose as
 outlined under Public Act 85-0863. Disclosure of this
 information is mandatory. This form has been approved by
 the Forms Management Center.

7286998

PRESS FIRMLY WITH BLACK PEN OR TYPE
 Do Not Use Felt Pen

REC-117-1005
 IL482-0126
 1/16/99

215

WELL CONTRACTOR

Date 12-9-97

TYPE OR PRESS FIRMLY WITH BLACK INK PEN, THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF COMPLETION AND SENT TO THE APPROPRIATE HEALTH DEPARTMENT

GEOLOGICAL AND WATER SURVEY WELL RECORD

12740

097-0932-97

11. Permit Number WV97-15-0932 Date Issued 10-20-97

12. Property Owner VINCE SERIO Well # 1

13. Drilling Company Name PETER SNETTEN & SONS INC.

14. Name of Person who drilled the well BRAD SNETTEN

15. Well Site Address 26425 N. DARRELL RD. BARRINGTON

16. Twnshp Name WAUCONDA Land ID# 09-33-400-06

17. Subdivision Name* FOX RIVER VALLEY GARDENS Lot 5 Elevation 742 ft.

18. Location: Cnty LAKE Sect 33 Twnshp 44N Range 9E
~~SW~~ Quarter of the ~~SW~~ Quarter of the NE ^{SE} Quarter

19. Casing and Liner Pipe: .4d

20. Screen: Diameter 5" in. Length 3' ft. Slot Size 25 Material STAINLESS

Dia (In)	Type	From(ft)	To (ft)
5"	PVC SDR 21	0'	49'
	ASTM D-2241		
	NSF 0Y39HR43A		

1. Date Well Completed 11-18-97

2. Use: Domestic Irrigation Commercial Livestock
 Monitoring Other

3. Type of Well:

a. Bored Well: Hole Diameter _____ in. Depth _____ ft.
Casing Diameter _____ in. Buried Slab: Yes No

b. Driven Well: Drive Pipe Diameter _____ in. Depth _____ ft.

c. Drilled Well: Well Diameter 9" in. Depth 52' ft.
Casing Diameter 5" in. Type PVC Joint GLUED

Casing Grout: Oversized

Kind	Drill Hole(In)	From(ft)	To(ft)
CLAY BENTONITE	9"	0'	50 49'

Finished In: Unconsolidated Gravel Pack: Yes No
Rock Grain Size _____

Well Disinfected? Yes No

Date Permanent Pump Installed 12-5-97

Licensed Pump Contractor RICHARD SNETTEN JR.
Phone Number 101-003747

Pitless Adapter Installed? Yes No
Manufacturer WILLIAMS Model B52-ACV

Attached to Casing How? Screwed On Welded Compression

Type of Well Cap VENTED & GASKETED

Tank Working Cycle 26 gallons Captive Air: Yes No

Pump and Equipment Disinfected? Yes No

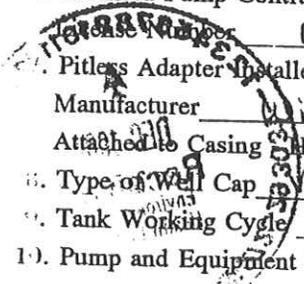
General Comments: (If dry hole, fill out log & indicate how hole was sealed.)

21. Water from GRAVEL at depth 52' ft. to 8' ft.

22. Static Level 8' ft. below casing top which is 12" in. above ground level.
Pumping Level 10' ft. Pumping 20 gpm for 2 hours.

23. Earth Materials Passed Through

	Depth Top(ft)	Depth Bottom(ft)
BROWN CLAY	0'	5'
SAND	5'	18'
BLUE CLAY	18'	42'
SAND & GRAVEL	42'	52'



Illinois Department of Public Health
Division of Environmental Health - 525 W. Jefferson
Springfield, IL 62761

300658 / 40237

IMPORTANT NOTICE: This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

Continue on back of sheet if necessary

Greg Snetten
Licensed Contractor Signature

092-006972
License Number

(SEE REVERSE SIDE FOR ADDITIONAL INFORMATION)

Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

13
2747

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. 5 in. Depth 136 ft.
Curb material Buried Slab: Yes No
- b. Driven Drive Pipe Diam. in. Depth ft.
- c. Drilled Finished in Drift In Rock
Tubular Gravel Packed
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building Ft. Seepage Tile Field
- Cess Pool Sewer (non Cast iron)
- Privy Sewer (Cast iron)
- Septic Tank Barnyard
- Leaching Pit Manure Pile

- 3. Well furnishes water for human consumption? Yes No
- 4. Date well completed 9/2/87
- 5. Permanent Pump Installed? Yes Date 9/3/87 No
Manufacturer Red Jacket Type subm. Location
Capacity 10 gpm. Depth of Setting 40 Ft.
- 6. Well Top Sealed? Yes No Type
- 7. Pitless Adapter Installed? Yes No
Manufacturer Williams Model Number
How attached to casing? clamp
- 8. Well Disinfected? Yes No
- 9. Pump and Equipment Disinfected? Yes No
- 10. Pressure Tank Size 82 gal. Type Champion
Location
- 11. Water Sample Submitted? Yes No

REMARKS:

Co # 29149

- 10. Property owner JOHN DOWNING Well No. 28427 Maple
Address 16151 Arlington, Libertyville, IL
Driller GEORGE E. GAFFKE License No. 102-2342
- 11. Permit No. 129925 Date 3/12/87
- 12. Water from Limestone 13. County Lake
Formation
at depth 128 to 136 ft. Sec. 33.3a
- 14. Screen: Diam. in. Twp. 44N
Length: ft. Slot Rge. 9E
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	RVC	+2	107
5	Black Steel	107	128

SHOW LOCATION IN SECTION PLAT
175' SL, 25' WL
SE SW SE

- 16. Size Hole below casing: 5 in.
- 17. Static level 11 ft. below casing top which is 2 ft. above ground level. Pumping level ft. when pumping at 15-20 gpm for hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay Fill	3	3
Brown Clay	8	11
Sand & Gravel	47	58
Sandy Blue Clay	57	115
Gravel, Broken Limestone	13	128
Limestone	8	136

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED George E. Gaffke DATE 1/19/88

10330846

04-33-405-004 15D 97-15-0710
 GEOLOGICAL AND WATER SURVEY WELL RECORD

2744

TYPE OR PRESS FIRMLY WITH BLACK INK PEN, THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF COMPLETION AND SENT TO THE APPROPRIATE HEALTH DEPARTMENT.

1. Date Well Completed 4/20/98
 2. Use: Domestic Irrigation Commercial Livestock
 Monitoring Other _____

3. Type of Well:
 a. Bored Well: Hole Diameter _____ in. Depth _____ ft.
 Casing Diameter _____ in. Buried Slab: Yes No
 b. Driven Well: Drive Pipe Diameter _____ in. Depth _____ ft.
 c. Drilled Well: Well Diameter 5 in. Depth 150 ft.
 Casing Diameter 5 in. Type SAR PVC 21 Joint BLUES

Casing Grout: Oversized _____

Kind	Drill Hole(In)	From(ft)	To(ft)
BENTONITE	5	0	137

Finished In: Unconsolidated Gravel Pack: Yes No
 Rock Grain Size _____

4. Well Disinfected? Yes No
 5. Date Permanent Pump Installed 4/30/98
 6. Licensed Pump Contractor ROBERT EFFLANST
 License Number 102-003506
 7. Pitless Adapter Installed? Yes No
 Manufacturer WILLIAMS Model B50ACV
 Attached to Casing - How? Screwed On Welded Compression
 8. Type of Well Cap WILLIAMS
 9. Tank Working Cycle 19 gallons Captive Air: Yes No
 10. Pump and Equipment Disinfected? Yes No

General Comments: (If dry hole, fill out log & indicate how hole was sealed.)

Illinois Department of Public Health
 Division of Environmental Health - 525 W. Jefferson
 Springfield, IL 62761

CO #. 48416

R 350400

IMPORTANT NOTICE. This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

11. Permit Number 097-0710-98 Date Issued 2/4/98
 12. Property Owner BRADLEY HOMES Well # _____
 13. Drilling Company Name EFFLANST WELL DRILLING INC
 14. Name of Person who drilled the well ROBERT EFFLANST
 15. Well Site Address MAPLE AVE, LAKE BARRINGTON
 16. Twnshp Name WAUCONDA Land ID# 09-33-405-00
 17. Subdivision Name GREENVIEW ACRES Lot 26 Elevation _____ ft.
 18. Location: Cnty LAKE Sect 33 Twnshp 44N Range 9E
SE Quarter of the SW Quarter of the SE Quarter

19. Casing and Liner Pipe: 3a 20. Screen: _____

Dia (In)	Type	From(ft)	To (ft)	Diameter in.
5	PVC SAR 21, 200 LBS	0	137	

Length _____ ft.
 Slot Size _____
 Material _____

21. Water from LIMESTONE at depth 137 ft. to 150 ft.
 22. Static Level 10 ft. below casing top which is 12 in. above ground level.
 Pumping Level 30 ft. Pumping 10 gpm for 1 hours.

23. Earth Materials Passed Through

Earth Materials Passed Through	Depth Top(ft)	Depth Bottom(ft)
SAND	0	15
SAND GRAVEL	15	75
GRAY CLAY	75	115
HARD PAN BROKEN		
LIMESTONE	115	137
LIMESTONE	137	150

Continue on back of sheet if necessary

Robert Efflanst
 Licensed Contractor Signature License Number 102-003506

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 6206, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

15
2743

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. in. Depth ft.
Curb material . Buried Slab: Yes No
- b. Driven Drive Pipe Diam. in. Depth ft.
- c. Drilled Finished in Drift . In Rock .
Tubular Gravel Packed Gray Stone
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
4 in	0	143

2. Distance to Nearest:

- Building 18 Ft. Seepage Tile Field
- Cess Pool None Sewer (non Cast iron)
- Privy None Sewer (Cast iron)
- Septic Tank 90 Barnyard None
- Leaching Pit None Manure Pile None

3. Is water from this well to be used for human consumption?

Yes No

4. Date well completed August 1-72

5. Permanent Pump Installed? Yes No

Manufacturer Jacuzzi Type Submersible
Capacity 10 gpm. Depth of setting 60 ft.

6. Well Top Sealed? Yes No

7. Pitless Adaptor Installed? Yes No

8. Well Disinfected? Yes No

9. Water Sample Submitted? Yes No

REMARKS:

10. Property owner Joseph Girardi Well No. 125
Address Rt. 1 Box 160 Barrington, Ill.
Driller Clem J. W. Wife License No. 92-247

11. Permit No. NF 15336 Date Aug 14-72

12. Water from Gray Stone formation 13. County Lake

at depth 136 to 143 ft.

Sec. 33.3b

14. Screen: Diam. None in.

Twp. 44N

Length: ft. Slot

Rge. 9E

Elev. 770

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4 in	gal. steel 11 lb. ft.	0	143

SHOW LOCATION IN SECTION PLAT
NE SW SE

16. Size Hole below casing: 4 in.

17. Static level 18 ft. below casing top which is 1 ft. above ground level. Pumping level 38 ft. when pumping at 10 gpm for 8 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	3	3
Red Clay stone	23	26
Sand + water	4	30
Gray Clay	100	130
Gray silt sand	6	136
Gray stone	7	143

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Clem J. W. Wife DATE Aug 14-72

Copied
 Ill. Dept. of Public Health
 Yellow Copy: Well Contractor
 Golden Copy: Well Owner

Well Construction Report

WW 90-15-1122

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 2738

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
 OF WELL COMPLETION AND SENT TO
 THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH
 525 WEST JEFFERSON STREET
 SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller R. SNELTEN License No. 092-002
 10. Well Site Address 26859 N. ELLEN, WAUCONDA
 11. Property Owner ALBERT FALLETTI Well No. _____
 12. Permit No. WW90-15-1122 Date Issued 7/30/90
 13. Location: SW, NW, NE County LAKE

Sec. 33.36
 Twp. 44N
 Rge. 9E

			X

1. Type of Well
 a. Bored _____ Hole Diam. _____ in. Depth _____ ft
 Buried Slab: Yes _____ No _____
 b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
 c. Drilled X Finished in Drift _____ In Rock X

(KIND)	FROM (Ft.)	TO (Ft.)

d. Grout:

14. Water from _____ at depth _____ ft

15. Casing and Liner Pipe		to _____ ft	
Diam. (in)	Kind and Weight	From (ft)	To (ft)
5	PVC 281#/100'	0	124

Show location
 in section
 plat
 SE, NW, NE

2. Well furnishes water for human consumption? Yes X No _____
 3. Date well drilled 8/2/90
 4. Permanent pump installed? Yes X Date 8/11/90 No _____
 Manufacturer RED JACKET Type sub
 Location well
 Capacity 10 gpm. Depth of setting 40 ft.
 5. Well top sealed? Yes X No _____ Type _____
 6. Pitless adapter installed? Yes X No _____
 Manufacturer WILLIAMS Model No. B50ACVS
 How attached to casing? coupled
 7. Well disinfected? Yes X No _____
 8. Pump and equipment disinfected Yes X No _____

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____
 17. Size hole below casing 5 in. 18. Ground Elev. _____ ft msl
 19. Static level 2 ft below casing top which is 1 ft. above
 ground level. Pumping level 15 ft, pumping 1/2 gpm for 3 hours

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
DIRT	0	2
SAND	2	60
GRAVEL	60	80
SAND	80	124
LIMESTONE	124	125

Continue on separate sheet if necessary.

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

P230349

PRESS FIRMLY WITH BLACK PEN OR TYPE

Do Not Use Felt Pen

Signed Richard Snelten Jr. Date 8-18-90

Copy -
 Ill. Dept. of Public Health
 Yellow Copy - Well Contractor
 Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

RECEIVED
 AUG 15 1988

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. 5 in. Depth 138 ft.
 Curb material _____ Buried Slab: Yes No
- b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
- c. Drilled Finished in Drift _____ In Rock _____
 Tubular _____ Gravel Packed _____
- d. Grout: _____

(KIND)	FROM (Ft.)	TO (Ft.)

- 10. Property owner Bob Billen Well No. _____
 Address 26818 maple, Wauconda
 Driller R. Snellen License No. 092
- 11. Permit No. 000934 Date 3-31-88
- 12. Water from Rock Formation 13. County LAKE

- at depth _____ to _____ ft. Sec. 331a
- 14. Screen: Diam. _____ in. Twp. 44N
 Length: _____ ft. Slot _____ Rge. 9E
 Elev. _____

SHOW LOCATION IN SECTION PLAT
 SW, SW, SE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>Steel 15# / FT</u>	<u>0</u>	<u>135</u>

- 16. Size Hole below casing: 5 in.
- 17. Static level 11 ft. below casing top which is 1 ft. above ground level. Pumping level 20 ft. when pumping at 15 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Brown Clay</u>	<u>0</u>	<u>15</u>
<u>Blue Clay</u>	<u>15</u>	<u>25</u>
<u>SAND</u>	<u>25</u>	<u>123</u>
<u>COARSE GRAVEL</u>	<u>123</u>	<u>135</u>
<u>Limestone</u>	<u>135</u>	<u>138</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED P. Snellen DATE 8/11/88

2. Distance to Nearest:

- Building 25 Ft. Seepage Tile Field 75'
- Cess Pool _____ Sewer (non Cast iron) _____
- Privy _____ Sewer (Cast iron) _____
- Septic Tank 50' Barnyard _____
- Leaching Pit _____ Manure Pile _____

- 3. Well furnishes water for human consumption? Yes No
- 4. Date well completed 5-4-88
- 5. Permanent Pump Installed? Yes Date 5-21-88 No
 Manufacturer Red Jacket Type sub Location _____
 Capacity 10 gpm. Depth of Setting 60' Ft.
- 6. Well Top Sealed? Yes No Type _____
- 7. Pitless Adapter Installed? Yes No
 Manufacturer Williams Model Number B50ACVS
 How attached to casing? coupled
- 8. Well Disinfected? Yes No
- 9. Pump and Equipment Disinfected? Yes No
- 10. Pressure Tank Size 80 gal. Type CAPTIVE
 Location BASEMENT
- 11. Water Sample Submitted? Yes No

REMARKS:

Co. # 30718

P330852

White Copy - Public Health
 Ill. Dept. Yellow Copy - Well Contractor
 Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

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 2740

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well
 a. Dug Bored Hole Diam. in. Depth ft.
 Curb material . Buried Slab: Yes No
 b. Driven Drive Pipe Diam. 5 in. Depth 220 ft.
 c. Drilled Finished in Drift In Rock
 Tubular Gravel Packed
 d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:
 Building 20 Ft. Seepage Tile Field 80
 Cess Pool Sewer (non Cast iron)
 Privy Sewer (Cast iron)
 Septic Tank 60 Barnyard
 Leaching Pit Manure Pile
3. Well furnishes water for human consumption? Yes No
 4. Date well completed 2-10-78
 5. Permanent Pump Installed? Yes Date 7-20-78 No
 Manufacturer RED JACK Type Sub Location well
 Capacity 10 gpm. Depth of Setting 120 Ft.
 6. Well Top Sealed? Yes No Type WILLIAMS
 7. Pitless Adapter Installed? Yes No
 Manufacturer WILLIAMS Model Number B50AC
 How attached to casing? UNDER SYSTEM PRESSURE
 8. Well Disinfected? Yes No
 9. Pump and Equipment Disinfected? Yes No
 10. Pressure Tank Size 30 gal. Type CON-AIR
 Location ROSEMENT
 11. Water Sample Submitted? Yes No

REMARKS:

10. Property owner MATHEN SCHADECK Well No.
 Address MAPLE AVE ISLAND LAKE
 Driller PETER PILGARD License No. 102-94
 11. Permit No. 70718 Date JAN 11, 1978
 12. Water from Limestone Formation 13. County LAKE
 at depth 127 to 220 ft. Sec. 33
 14. Screen: Diam. in. Twp. 44N
 Length: ft. Slot Rge. 9E
 Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	GALV 15#	0	127

SHOW LOCATION IN SECTION PLAT SW SE SE

16. Size Hole below casing: 5 in.
 17. Static level 15 ft. below casing top which is 1 ft. above ground level. Pumping level 120 ft. when pumping at 8 gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
CLAY	30	30
GRAVEL	25	55
CLAY & GRAVEL	30	85
CLAY	42	127
LIMESTONE - DRY	55	182
Shale WITH LAYERS OF ROCK	18	200
LIMESTONE	20	220

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Nenna Pilgard DATE 7-25-78

P 330853

**Illinois Department of Public Health
WATER WELL CONSTRUCTION REPORT**

11-H 9858 02

Date 11/29/02

①
737

TYPE OR PRESS FIRMLY WITH BLACK INK PEN. COMPLETE WITHIN 30 DAYS OF WELL COMPLETION AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT

1. Type of Well a. **Driven** Well Casing diam. _____ in. Depth _____ ft.
 b. **Bored** Well Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. **Drilled** Well PVC casing Formation packer set at depth of _____ ft.
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- d. **Drilled** Well Steel Casing --- Mechanically Driven [X] Yes [] No
 Hole Diameter 5" in. to 46 ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
<u>Wyoben DE</u>			<u>46'</u>	<u>grade</u>	

- e. Well finished within [X] Unconsolidated Materials [] Bedrock

f. Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use [X] Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other

3. Date Well Completed 11/27/02 Well Disinfected [X] Yes [] No
 Driller's estimated well yield 30+ gpm

4. Date Permanent Pump Installed 11/27/02
 5. Pump Capacity 10 gpm Set at (depth) 20' ft.

6. Pitless Adapter Model and Manufacturer Williams B50ACVS

7. Well Cap Type and Manufacturer Williams vented

8. Pressure Tank Working Cycle used existing #250 well [X] Yes [] No

9. Pump System Disinfected [X] Yes [] No

10. Name of Pump Company A & C Snelten, Inc.

11. Pump Installer Steve Snelten License # 102-003167

12. SA SNELTEN License # 102-003167

Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson St.
 Springfield, IL 62761

CO #. 40389

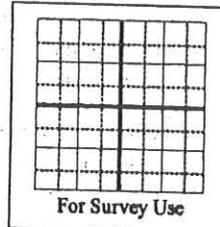
DO NOT write on these lines

IMPORTANT NOTICE: This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.

GEOLOGICAL & WATER SURVEY WELL RECORD

13. Property Owner Carl Molitor Well # _____
 14. Driller Cornelius J. Snelten III License # 102-003167
 15. Name of Drilling Co. A & C Snelten, Inc.
 16. Permit No. H9858 Date Issued _____
 17. Date Drilling Started 11/13/02
 18. Well SITE address 108 Hickory Nut Grove Ln., Cary, IL.
 19. Township Name Algonquin Land ID # 20-05-278-018
 20. Subdivision Name Hickory Grove Lot # 3
 21. Location a. County McHenry
 b. Township 43N Range 9E Section 5.1g
 c. SE Quarter NE Quarter NE Quarter
 d. Coordinates _____ Site Elevation _____ ft. (msl)

*per FBK maps
00A*



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
<u>5 in.</u>	<u>Galv. steel</u>			<u>1+'</u>	<u>46'</u>

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from Gravel at a depth of 44' ft. to 46' ft.
 a. Static water level 7' ft. below casing which is 12 in. above ground
 b. Pumping level is 20' ft. pumping 10 gpm after pumping for 4 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
<u>Brown clay</u>	<u>0'</u>	<u>8'</u>
<u>Blue clay</u>	<u>8'</u>	<u>42'</u>
<u>Sandy gravel</u>	<u>42'</u>	<u>44'</u>
<u>Gravel</u>	<u>44'</u>	<u>46'</u>

(If dry hole, fill out log & indicate how hole was sealed)

SA Snelten License Number 102-003167
 25. Licensed Water Well Contractor Signature
 (SEE REVERSE SIDE FOR ADDITIONAL INFORMATION)

..... Copy
 Ill. Dept. of Public Health
 Yellow Copy - Well Contractor
 Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well
- a. Dug _____ Bored _____ Hole Diam. 4 in. Depth 116 ft.
 Curb material _____ Buried Slab: Yes _____ No _____
- b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
- c. Drilled X Finished in Drift _____ In Rock X _____
 Tubular _____ Gravel Packed _____
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
MUD SLURRY	0	112

2. Distance to Nearest:
- Building _____ Ft. Seepage Tile Field 75+
- Cess Pool _____ Sewer (non Cast iron) _____
- Privy _____ Sewer (Cast iron) _____
- Septic Tank 50+ Barnyard _____
- Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
 Yes X No _____
4. Date well completed 7/12/74
5. Permanent Pump Installed? Yes X No _____
 Manufacturer RED SACKET Type Submersible
 Capacity 12 gpm. Depth of setting 42 ft.
6. Well Top Sealed? Yes X No _____
7. Pitless Adaptor Installed? Yes X No _____
8. Well Disinfected? Yes _____ No _____
9. Water Sample Submitted? Yes X No _____

REMARKS:

UNANNOUNCED

IDPH 4.065
 10/68

P99296

10. Property owner CHAS MARTIN (MRS) Well No. _____
 Address LOT 18 HICKORY GROVE
 Driller MARTIN BROS. SON INC License No. 102-7
11. Permit No. 31087 Date 7/19/74
12. Water from Rock Formation _____ 13. County MO HENRY
 at depth _____ to _____ ft. Sec. 5.2e
14. Screen: Diam. _____ in. Twp. 43N
 Length: _____ ft. Slot _____ Rge. 9E
 Elev. 735

15. Casing and Liner Pipe per ISGS 816108

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>4"</u>	<u>GALV.</u>	<u>0</u>	<u>112</u>

SHOW LOCATION IN SECTION PL.
 Lot #18
 Hickory Gro
 Subd. 5
 SWSEN

16. Size Hole below casing: 4 in.
17. Static level 2 ft. below casing top which is 2 above ground level. Pumping level 42 ft. when pumping at 12 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH C BOTTOM
<u>YELLOW CLAY</u>	<u>0-10'</u>	
<u>GREY CLAY / SAND</u>	<u>10-20'</u>	
<u>WHITE LIMESTONE GRAVEL</u>	<u>20-30'</u>	
<u>DK GREY SAND</u>	<u>35-50'</u>	
<u>BROWN CLAY</u>	<u>80-100'</u>	
<u>GREY SAND</u>	<u>100-112'</u>	
<u>WHITE LIMESTONE BEDROCK</u>	<u>112-116'</u>	

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED James Hutchings DATE 11/24/74

TYPE OR PRESS FIRMLY WITH BLACK INK PEN
 COMPLETE WITHIN 30 DAYS OF WELL COMPLETION
 AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT

Well Completion Report

#00-70

111-H252 00 (2)
 Date 5-12-00 N74C ✓

GEOLOGICAL & WATER SURVEY WELL RECORD

1. Type of Well: a. Driven Well: Casing diam. _____ in. Depth _____ ft.
 b. Bored Well: Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. Drilled Well: PVC casing Formation packer set at depth of _____ ft.
 Hole Diameter 9" in. to 114' ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
BENTONITE	10	9"	0'	114'	60'

1. Drilled Well: Steel Casing - - Mechanically Driven [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

2. Well finished within: [] Unconsolidated Materials Bedrock

Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use: Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other

3. Date Well Completed: 5-1-00 Well Disinfected Yes [] No
 Driller's estimated well yield: 6+ gpm

4. Date Permanent Pump Installed: 5-11-00

5. Pump Capacity 7 gpm Set at (depth) 100' ft.

6. Pitless Adapter Model and Manufacturer: BAKER I-BP

7. Well Cap Type and Manufacturer: VENTED & GASKETED

8. Pressure Tank: Working Cycle 10 gals. Captive Air: Yes [] No

9. Pump System Disinfected: Yes [] No

10. Name of Pump Company: PETER SNELTEN & SONS

11. Pump Installer: JEFF SNELTEN License # 102-004256

12. Jeffrey A. Suller License # _____
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson Street
 Springfield, IL 62761

CO # 37580

DO Not write on these lines

13. Property Owner: GARY POFF Well # 2
 14. Driller: BRAD SNELTEN License # 102-004256
 Name of Drilling Company: PETER SNELTEN & SONS, INC. 16.
 Permit No. H-2522 Date Issued 4-20-00

17. Date Drilling Started: 4-28-00
 18. Well SITE address: 322 TUXEDO LN. CARY 19.

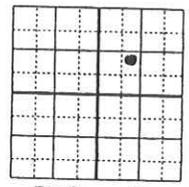
Township Name: ALGONQUIN Land ID # 20-05-252-009
 Subdivision Name: HICKORY GROVE Lot # 2 21.

Location: a. County: MCHENRY
 b. Township: 43N Range 9E Section 5.3E
 c. SE Quarter SW Quarter NE Quarter

d. coordinates: _____ Site Elevation: 738 ft.(msl)

22. Casings, Liners*, & Screen Information per ISGS 8/6/08

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	GLUED		0'	114'
ASTM	D-2241				



For Survey Use Only

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from LIMESTONE at a depth of 114 ft. to 5' ft.
 a. static water level 5' ft. below casing which is 24 in. above ground
 b. pumping level is 60' ft. pumping 7 gpm after pumping for 2 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
BROWN CLAY	0'	9'
SAND & GRAVEL	9'	55'
SAND	55'	98'
SAND & GRAVEL	98'	114'
LIMESTONE	114'	

(If DRY HOLE, fill out log & indicate how hole was sealed)

Jeffrey A. Suller
 Licensed Water Well Contractor Signature

102-004256
 License Number

IMPORTANT NOTICE: This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.
 IL 482-0126 rev. 12/98



TYPE OR PRESS FIRMLY WITH BLACK INK PEN, THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF COMPLETION AND SENT TO THE APPROPRIATE HEALTH DEPARTMENT

GEOLOGICAL AND WATER SURVEY WELL RECORD 111-69526-98

1. Date Well Completed 12/4/98

2. Use: [] Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other _____

3. Type of Well:

a. Bored Well: Hole Diameter _____ in. Depth _____ ft.
 Casing Diameter _____ in. Buried Slab: [] Yes [] No

b. Driven Well: Drive Pipe Diameter _____ in. Depth _____ ft.

c. Drilled Well: Well Diameter 5 in. Depth 45 ft.
 Casing Diameter 5 in. Type PVC Joint Certalock

Casing Grout: Oversized

Kind	Drill Hole(In)	From(ft)	To(ft)
Pressure	9	0	41

11. Permit Number G9526 Date Issued 12/7/98

12. Property Owner Ed Leberecht Well # _____

13. Drilling Company Name Country Well & Pump, Inc.

14. Name of Person who drilled the well Mark Nice

15. Well Site Address 408 Tuxedo Lane, Cary, IL

16. Twnshp Name Algonquin Land ID# 20-05-252-003-00

17. Subdivision Name Hebony Brook Lot 9 Elevation _____ ft.

18. Location: Cnty McHenry Sect 5 Twnshp 43N Range 9E
NE Quarter of the SW Quarter of the NE Quarter

19. Casing and Liner Pipe: 3x

Dia (In)	Type	From(ft)	To (ft)
5	PVC/ASTM F480	0	41

20. Screen: Diameter 4 in.
 Length 4 ft.
 Slot Size 15
 Material S.S.

21. Water from Gravel at depth 30 ft. to 45 ft.

22. Static Level 3 ft. below casing top which is 12 in. above ground level.
 Pumping Level 20 ft. Pumping 10 gpm for 2 hours.

23. Earth Materials Passed Through

Earth Materials Passed Through	Depth Top(ft)	Depth Bottom(ft)
Top Soil	0	2
Clay	2	7
Gravel	7	18
Clay	18	30
Gravel	30	45

Finished In: Unconsolidated [] Gravel Pack: [] Yes [] No
 Rock [] Grain Size 1/8-1/2"

4. Well Disinfected? [] Yes [] No

5. Date Permanent Pump Installed 12/9/98

6. Licensed Pump Contractor Mark Nice
 License Number 102-003209

7. Pitless Adapter Installed? [] Yes [] No
 Manufacturer Williams Model B50AC
 Attached to Casing - How? [] Screwed On [] Welded [] Compression

8. Type of Well Cap Wells SC5

9. Tank Working Cycle 120 gallons Captive Air: [] Yes [] No

10. Pump and Equipment Disinfected? [] Yes [] No

General Comments: (If dry hole, fill out log & indicate how hole was sealed.)

Illinois Department of Public Health
 Division of Environmental Health - 525 W. Jefferson
 Springfield, IL 62761

CO# 36010

P-307641 ✓

IMPORTANT NOTICE. This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

Continue on back of sheet if necessary

Licensed Contractor Signature _____ License Number 102-003209

REQUESTED AND MAIL ORIGINAL TO STATE
DEPT. OF ENVIRONMENTAL HEALTH, 535 WEST
701. DO NOT DETACH GEOLOGICAL/WATER
RE PROPER WELL LOCATION

25
1372

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 8-25-72

10. Property owner Melvin Adkerson Well No. _____
Address Lot 17, Fox River Valley Gardens Barrington, Ill
Driller Boetsch Water Supply, License No. 92-436

11. Permit No. NF 15023 Date McHenry
12. Water from rock Formation 13. County

at depth 125 to _____ ft.

14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)

SHOW LOCATION IN SECTION PLAT
Lot 17 Fox River Valley Gardens (permit)

16. Size Hole below casing: 5 in.

17. Static level _____ ft. below casing top which is _____ ft. above ground level. Pumping level _____ ft. when pumping at _____ gpm for _____ hours.

FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
top soil	4	4
sand and gravel	28	30
pink sandy clay	85	115
shell rock	6	121
rock	4	125

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Boetsch Water Supply Surveyor DATE July 27, 1973
Mary A. Boetsch Hartmann

COUNTY NO. 1743

P233972

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

25
N737

White Copy - Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

**ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT**

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. 5 in. Depth 160 ft.
Curb material _____ Buried Slab: Yes No
- b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
- c. Drilled Finished in Drift _____ In Rock _____
Tubular _____ Gravel Packed _____
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building _____ Ft. Seepage Tile Field _____
Cess Pool _____ Sewer (non Cast iron) _____
Privy _____ Sewer (Cast iron) _____
Septic Tank _____ Barnyard _____
Leaching Pit _____ Manure Pile _____

3. Well furnishes water for human consumption? Yes No

4. Date well completed 10/28/80

5. Permanent Pump Installed? Yes Date 10/30/80 No

Manufacturer Aermotor Type sub Location _____
Capacity 12 gpm. Depth of Setting 60 Ft.

6. Well Top Sealed? Yes No Type _____

7. Pitless Adapter Installed? Yes No

Manufacturer Baker Model Number snappy
How attached to casing? compression

8. Well Disinfected? Yes No

9. Pump and Equipment Disinfected? Yes No

10. Pressure Tank Size 20 gal. Type captive air
Location _____

11. Water Sample Submitted? Yes _____ No

REMARKS:

P227227

10. Property owner J & E Construction Co. Well No. _____

Address 116 Center Street, Barrington, IL 60010

Driller William M. Boetsch License No. 92-436

11. Permit No. 96911 Date 10/24/80

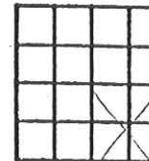
12. Water from limestone 13. County McHenry

Formation
at depth 120 to 160 ft. Sec. 32

14. Screen: Diam. _____ in. Twp. 44N

Length: _____ ft. Slot _____ Rge. 9E

Elev. _____



15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>pvc</u>	<u>1</u>	<u>108</u>
<u>5</u>	<u>black steel</u>	<u>108</u>	<u>120</u>

SHOW LOCATION IN SECTION PLAT
lot #154 Fox River Valley Ranch
Sub. SE

16. Size Hole below casing: 5 in.

17. Static level 10 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 18 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>black loam</u>	<u>4</u>	<u>4</u>
<u>yellow clay</u>	<u>11</u>	<u>15</u>
<u>gravel, sand</u>	<u>15</u>	<u>30</u>
<u>layered blue clay, sand</u>	<u>82</u>	<u>112</u>
<u>limestone gravel</u>	<u>4</u>	<u>116</u>
<u>hard white limestone sand, boulders</u>	<u>4</u>	<u>120</u>
<u>limestone bedrock</u>	<u>40</u>	<u>160</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED W.M. Boetsch DATE 11/4/80

White Copy - Ill. Dept. of Public Health
 Yellow Copy - Well Contractor
 Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

26
 ~737

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug _____ Bored _____ Hole Diam. 5 in. Depth 130 ft.
 Curb material _____ Buried Slab: Yes _____ No _____
 b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
 c. Drilled XX Finished in Drift _____ In Rock _____
 Tubular _____ Gravel Packed _____
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building _____ Ft. Seepage Tile Field _____
 Cess Pool _____ Sewer (non Cast iron) _____
 Privy _____ Sewer (Cast iron) _____
 Septic Tank _____ Barnyard _____
 Leaching Pit _____ Manure Pile _____

3. Well furnishes water for human consumption? Yes XX No _____

4. Date well completed 2/17/76

5. Permanent Pump Installed? Yes XX Date _____ No _____

Manufacturer Aermotor Type sub Location _____

Capacity 10 gpm. Depth of Setting 40 Ft.

6. Well Top Sealed? Yes XX No _____ Type Water tight

7. Pitless Adapter Installed? Yes XX No _____

Manufacturer Baker Model Number Snappy

How attached to casing? _____ Compression _____

8. Well Disinfected? Yes XXXX No _____

9. Pump and Equipment Disinfected? Yes XXX No _____

10. Pressure Tank Size 80 gal. Type Well-X-Trol
 Location _____

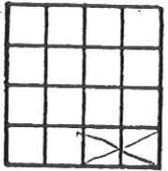
11. Water Sample Submitted? Yes _____ No XX

REMARKS:

P102014

10. Property owner Frank Novotny Well No. _____
 Address Rte1 Box 235 Barrington, Ill. 60010
 Driller William M. Boetsch License No. 92-436
 11. Permit No. 44590 Date 2/15/76
 12. Water from Limestone Formation 13. County McHenry

- at depth 126 to 130+ ft. Sec. 32
 14. Screen: Diam. _____ in. Twp. 44N
 Length: _____ ft. Slot _____ Rge. 9E
 Elev. _____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>PVC</u>	<u>1</u>	<u>126</u>

SHOW LOCATION IN SECTION PLAT
 Lot #161 in Fox River Valley Gardens.
 1st Add. S/2 of the SE

16. Size Hole below casing: 5 in.
 17. Static level 6 ft. below casing top which is 1 ft. above ground level. Pumping level 16 ft. when pumping at 8 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Top soil</u>	<u>1</u>	<u>1</u>
<u>Yellow clay</u>	<u>17</u>	<u>18</u>
<u>Sand and gravel</u>	<u>12</u>	<u>30</u>
<u>Greay clay</u>	<u>10</u>	<u>40</u>
<u>Stoney clay and sand</u>	<u>80</u>	<u>120</u>
<u>Shell rock</u>	<u>6</u>	<u>126</u>
<u>Limestone</u>	<u>4+</u>	<u>130+</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)
 SIGNED W.M. Boetsch DATE 2/19/76

98-243

ILLINOIS STATE DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

Date 10-21-98

(27)

TYPE OR PRESS FIRMLY WITH BLACK INK PEN, THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF COMPLETION AND SENT TO THE APPROPRIATE HEALTH DEPARTMENT

GEOLOGICAL AND WATER SURVEY WELL RECORD 11-67417-98

- 1. Date Well Completed 12-10-98
- 2. Use: Domestic Irrigation Commercial Livestock
 Monitoring Other

- 11. Permit Number G-9417 Date Issued 11-18-98 N 747
- 12. Property Owner LAKELAND HOMES Well # 1
- 13. Drilling Company Name PETER SNELTEN & SONS, INC.
- 14. Name of Person who drilled the well GREG SNELTEN
- 15. Well Site Address 101 RIVER WALK LN. BARRINGTON

- 3. Type of Well:
 - a. Bored Well: Hole Diameter _____ in. Depth _____ ft.
Casing Diameter _____ in. Buried Slab: Yes No
 - b. Driven Well: Drive Pipe Diameter _____ in. Depth _____ ft.
 - c. Drilled Well: Well Diameter 9" in. Depth 42' ft.
Casing Diameter 5" in. Type PVC Joint GLUED

- 16. Twnshp Name NUNDA Land ID# 15-32-280-002
- 17. Subdivision Name "RIVERWALK" Lot 1 Elevation 46.8 ft.
- 18. Location: Cnty MCHENRY Sect 32 Twnshp 44N Range 9E
SE Quarter of the SW Quarter of the NE Quarter

Casing Grout: Oversized

Kind	Drill Hole(In)	From(ft)	To(ft)
CLAY BENTONITE GROUT	9"	0'	39'

- 19. Casing and Liner Pipe: 3c
Dia (In) Type From(ft) To(ft)
 - 20. Screen: Diameter 5" in. Length 3' ft. Slot Size 15 Material STAINLESS
- | | | | |
|------|------------|----|-----|
| 5" | PVC SDR 21 | 0' | 39' |
| ASTM | D-2241 | | |
| NSF | HX691 R43A | | |

- 21. Water from GRAVEL at depth 42' ft. to 8' ft.
- 22. Static Level 8' ft. below casing top which is 12" in. above ground level.
Pumping Level 10' ft. Pumping 10+ gpm for 2 hours.

Finished In: Unconsolidated Gravel Pack: Yes No
Rock Grain Size _____

- 4. Well Disinfected? Yes No
- 5. Date Permanent Pump Installed 12-19-98
- 6. Licensed Pump Contractor RICHARD SNELTEN JR.
License Number 101-003747
- 7. Pitless Adapter Installed? Yes No
Manufacturer BAKER Model I-BP
Attached to Casing - How? Screwed On Welded Compression
- 8. Type of Well Cap VENTED & GASKETED
- 9. Tank Working Cycle 10 gallons Captive Air: Yes No
- 10. Pump and Equipment Disinfected? Yes No

23. Earth Materials Passed Through

	Depth Top(ft)	Depth Bottom(ft)
BROWN CLAY	0'	15'
SAND & GRAVEL	15'	32'
GRAVEL	32'	42'

General Comments: (If dry hole, fill out log & indicate how hole was sealed.)

Illinois Department of Public Health
Division of Environmental Health - 525 W. Jefferson
Springfield, IL 62761

IMPORTANT NOTICE. This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0126

Printed by Authority of the State of Illinois P.O. PRT3030244 6.5M 6/98

Continue on back of sheet if necessary

Jeffrey S. Snelten
Licensed Contractor Signature License Number 102-004256

(SEE REVERSE SIDE FOR ADDITIONAL INFORMATION)

#917-227

Date 1-21-97

28

TYPE OR PRESS FIRMLY WITH BLACK INK PEN, THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF COMPLETION AND SENT TO THE APPROPRIATE HEALTH DEPARTMENT

GEOLOGICAL AND WATER SURVEY WELL RECORD 111-64879-97

- 1. Date Well Completed 1-22-97
- 2. Use: Domestic Irrigation Commercial Livestock Monitoring Other

- 3. Type of Well:
 - a. Bored Well: Hole Diameter _____ in. Depth _____ ft. Casing Diameter _____ in. Buried Slab: Yes No
 - b. Driven Well: Drive Pipe Diameter _____ in. Depth _____ ft.
 - c. Drilled Well: Well Diameter 9" in. Depth 65' ft. Casing Diameter 5" in. Type PVC Joint GLUED

Casing Grout: Oversized

Kind	Drill Hole(In)	From(ft)	To(ft)
CLAY BENTONITE	9"	0'	65'

Finished In: Unconsolidated Gravel Pack: Yes No
 Rock Grain Size _____

- 4. Well Disinfected? Yes No
- 5. Date Permanent Pump Installed 1-30-97
- 6. Licensed Pump Contractor RICHARD SNELTEN JR.
License Number 101-003747
- 7. Pitless Adapter Installed? Yes No
Manufacturer Williams Model B50-ACV
Attached to Casing - How? Screwed On Welded Compression
- 8. Type of Well Cap VENTED
- 9. Tank Working Cycle 10 gallons Captive Air: Yes No
- 10. Pump and Equipment Disinfected? Yes No

General Comments: (If dry hole, fill out log & indicate how hole was sealed.)

Illinois Department of Public Health
 Division of Environmental Health - 525 W. Jefferson
 Springfield, IL 62761 P292903

IMPORTANT NOTICE. This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.
 12/19/92

- 11. Permit Number G-4879 Date Issued 1-8-97
- 12. Property Owner DAN ALLEN Well # 1
- 13. Drilling Company Name PETER SNELTEN & SONS INC.
- 14. Name of Person who drilled the well BRAD SNELTEN
- 15. Well Site Address 94 PENNISULA ALLEY BARRINGTON
- 16. Twnshp Name NONDA Land ID# 15-32-452-013
- 17. Subdivision Name FOX RIVER VALLEY GARDENS Lot 1187 Elevation _____ ft.
- 18. Location: Cnty MCHENRY Sect 323 Twnshp 44N Range 9E
SE Quarter of the SW Quarter of the SE Quarter

19. Casing and Liner Pipe:

Dia (In)	Type	From(ft)	To (ft)
5"	PVC SDR 17	0'	62'
	ASTM D-2241		
	NSF PY2AGR43A		

20. Screen:
 Diameter 5" in.
 Length 3 ft.
 Slot Size 25
 Material STAINLESS

- 21. Water from GRAVEL at depth 65' ft. to +1 ft.
- 22. Static Level +1 ft. below casing top which is 36" in. above ground level.
Pumping Level 10' ft. Pumping 12+ gpm for 2 hours.

23. Earth Materials Passed Through

	Depth Top(ft)	Depth Bottom(ft)
BLACK PEAT	0'	9'
SAND & GRAVEL	9'	22'
BLUE CLAY	22'	35'
SAND & GRAVEL	35'	65'

Continue on back of sheet if necessary
Brad Snelten
 Licensed Contractor Signature

092-006972
 License Number

WATER WELL CONSTRUCTION REPORT

111-0704-03

Date 3/18/05

TYPE OR PRESS FIRMLY WITH BLACK INK PEN. COMPLETE WITHIN 30 DAYS OF WELL COMPLETION AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT.

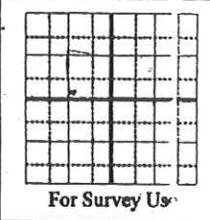
JAMES WADSWORTH
GEOLOGICAL AND WATER SURVEY WELL RECORD

- 1. Type of Well a. Driven Well Casing diam. _____ in. Depth _____ ft.
- b. Bored Well Buried Slab Yes No
- Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
- c. Drilled Well PVC casing Formation packer set at depth of _____ ft.
- Hole Diameter 9 in. to 117 ft. 5 in. to 117 ft. _____ in. to 120 ft.

- 13. Property Owner J.J. CONSTRUCTION Well # _____
- 14. Driller BOB HABERSTROH License # 102-003506
- 15. Name of Drilling Co. EFFLAUOT WELL DRILLING INC.
- 16. Permit No. 03-0704 Date Issued _____
- 17. Date Drilling Started 3/19/05

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
VOLCLAY	7	9.8	0	60	60
GROUT					

- 18. Well SITE address 725 RAWSON BRIDGE RD CARL
- 19. Township Name MOUNTA Land ID # 15-32-35-7-
- 20. Subdivision Name TURKEY POINT Lot # 1-6
- 21. Location a. County MCHEERY
- b. Township 44N Range 9E Section 32
- c. NW Quarter SE Quarter NW Quarter NE Quarter
- d. Coordinates _____ Site Elevation _____ ft. (msl)



- d. Drilled Well Steel Casing --- Mechanically Driven Yes No
- Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5	PVC	GLUED		+1	116
5	STAINLESS THRD		18	116	120

- e. Well finished within Unconsolidated Materials Bedrock

f. Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

(*) _____
(List reason for liner, type of upper and lower seals installed)

- 2. Well Use Domestic Irrigation Commercial Livestock
- Monitoring Other

- 3. Date Well Completed 3/18/05 Well Disinfected Yes No
- Driller's estimated well yield 35 gpm

- 4. Date Permanent Pump Installed 3/18/05
- 5. Pump Capacity 20 gpm Set at (depth) 60 ft.

- 6. Pitless Adapter Model and Manufacturer CAMPBELL DP 20X
- 7. Well Cap Type and Manufacturer LUNDE VENTED

- 8. Pressure Tank Working Cycle 15 gals. Captive Air Yes No
- 9. Pump System Disinfected Yes No

- 10. Name of Pump Company EFFLAUOT WELL DRILLING INC

- 11. Pump Installer BOB EFFLAUOT License # 102-003506
- 12. _____ License # _____

Licensed Pump Contractor Signature

Illinois Department of Public Health
Division of Environmental Health
525 W. Jefferson St.
Springfield, IL 62761

DO NOT write on these lines

- 23. Water from LIMESTONE at a depth of 117 ft. to 120 ft
- a. Static water level 3 ft. below casing which is 12 in. above ground
- b. Pumping level is 10 ft. pumping 20 gpm after pumping for 1 hours

24. Earth Materials Passed Through	From (ft.)	To (ft.)
BROWN CLAY-GRAVEL	0	10
GRAVEL	10	25
SAND	25	110
HARDPAN	110	117
LIMESTONE	117	120

- (If dry hole, fill out log and indicate how hole was sealed.)
- 25. Licensed Water Well Contractor Signature _____ License Number 102-003506

IMPORTANT NOTICE: This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

IN. CTIO... DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

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2741

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well
 a. Dug Bored Hole Diam. 5 in. Depth 140 ft.
 Curb material Buried Slab: Yes No
 b. Driven Drive Pipe Diam. in. Depth ft.
 c. Drilled Finished in Drift In Rock
 Tubular Gravel Packed
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
 Building Ft. Seepage Tile Field
 Cess Pool Sewer (non Cast iron)
 Privy Sewer (Cast iron)
 Septic Tank Barnyard
 Leaching Pit Manure Pile
 3. Is water from this well to be used for human consumption?
 Yes No
 4. Date well completed Oct. 10, 1974
 5. Permanent Pump Installed? Yes No
 Manufacturer Goulds Type submersible
 Capacity 20 gpm. Depth of setting 40 ft.
 6. Well Top Sealed? Yes No
 7. Pitless Adaptor Installed? Yes No
 8. Well Disinfected? Yes No
 9. Water Sample Submitted? Yes No

REMARKS:

IDPH 4.065
10-72
KNB-1

233177

10. Property owner Ray Leppek Well No.
 Address 125 Eastwood Ave, Barrington, Ill
 Driller Boetsch Water Supply License No. 92-436
 11. Permit No. 33569 Date 10-2-74
 12. Water from Limestone Formation 13. County McHenry
 at depth 130 to 140 ft. Sec. 5
 14. Screen: Diam. in. Twp. 43N
 Length: ft. Slot Rge. 9E
 Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)

SHOW LOCATION IN SECTION PLAT

Lot #3 Fox R
Valley Gardens
Subd. NE

16. Size Hole below casing: in.
 17. Static level ft. below casing top which is ft. above ground level. Pumping level ft. when pumping at gpm for hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil	2	2
Brown clay	13	15
Heavy gravel	15	30
Sandy gravel	55	85
Pink clay and gravel	45	130
Limestone	10	140

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Wm M. Boetsch DATE 10-22-74

TYPE OR PRESS FIRMLY WITH BLACK INK PEN, THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF COMPLETION AND SENT TO THE APPROPRIATE HEALTH DEPARTMENT

GEO 2 doors west VEY WELL RECORD 111-6, 358-98

11. of well that Date Issued 3-12-98 (31)

12. tested + dye MA Well # 1 2137

13. SNELTEN & SONS INC.

14. BRAD SNELTEN

15. Well Site Address 31 NORTH CIRCLE

16. Twnshp Name NUNDA Land ID# 15-32-478-006

17. Subdivision Name FOX RIVER VALLEY GARDENS Lot 135 & 136 Elevation ? ft.

18. Location: Cnty MEHENDY Sect 32 Twnshp 44N Range 9E NE Quarter of the SE Quarter of the SE Quarter

19. Casing and Liner Pipe: .16 20. Screen: Dia (In) Type From(ft) To(ft) Diameter phi in.

Dia (In)	Type	From(ft)	To(ft)	Diameter phi in.
5"	PVC SDR 21	0'	113'	Length phi ft.
	ASTM D-3241			Slot Size phi
	NSF OYHR 43D			Material phi

21. Water from LIMESTONE at depth 120' ft. to 10' ft.

22. Static Level 10' ft. below casing top which is 12" in. above ground level. Pumping Level 30' ft. Pumping 10+ gpm for 2 hours.

23. Earth Materials Passed Through Depth Top(ft) Depth Bottom(ft)

Earth Materials Passed Through	Depth Top(ft)	Depth Bottom(ft)
BROWN CLAY	0'	6'
SAND & GRAVEL	6'	27'
BLUE CLAY	27'	53'
SAND	53'	101'
SAND & GRAVEL	101'	113'
LIMESTONE	113'	120'

Continue on back of sheet if necessary

Licensed Contractor Signature [Signature] License Number 092-006972

(SEE REVERSE SIDE FOR ADDITIONAL INFORMATION)

Date Well Completed 3-30-98

Use: [X] Domestic [] Irrigation [] Commercial [] Livestock [] Monitoring [] Other

Type of Well:

a. Bored Well: Hole Diameter in. Depth ft.

Casing Diameter in. Buried Slab: [] Yes [] No

b. Driven Well: Drive Pipe Diameter in. Depth ft.

c. Drilled Well: Well Diameter 9" in. Depth 113' ft.

Casing Diameter 5" in. Type PVC Joint GLUED

Casing Grout: Oversized

Kind	Drill Hole(In)	From(ft)	To(ft)
CLAY BENTONITE	9"	0'	113'

Finished In: Unconsolidated [] Gravel Pack: [] Yes [] No Rock [X] Grain Size

Well Disinfected? [X] Yes [] No

Date Permanent Pump Installed 4-4-98

Licensed Pump Contractor RICHARD SNELTEN JR.

License Number 101-003747

Pitless Adapter Installed? [X] Yes [] No

Manufacturer BAKER Model 1-BP

Attached to Casing - How? [] Screwed On [] Welded [X] Compression

Type of Well Cap VENTED & GASKETED

Tank Working Cycle 6 gallons Captive Air: [X] Yes [] No

Pump and Equipment Disinfected? [X] Yes [] No

General Comments: (If dry hole, fill out log & indicate how hole was sealed.)

Illinois Department of Public Health Division of Environmental Health - 525 W. Jefferson Springfield, IL 62761 304529

IMPORTANT NOTICE. This State Agency is requesting disclosure of information that is necessary to accomplish statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

CO# 35665

Hit Copy -
 Ill. Dept. of Public Health
 Follow Copy - Well Contractor
 Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED. MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

32
 2737

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug . Bored . Hole Diam. 5 in. Depth 130 ft.
 Curb material . Buried Slab: Yes No
 b. Driven . Drive Pipe Diam. in. Depth ft.
 c. Drilled . Finished in Drift . In Rock .
 Tubular . Gravel Packed
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building Ft. Seepage Tile Field 100'
 Cess Pool Sewer (non Cast iron)
 Privy Sewer (Cast iron)
 Septic Tank 75' Barnyard
 Leaching Pit Manure Pile

3. Is water from this well to be used for human consumption?

Yes No

4. Date well completed 9-30-71

5. Permanent Pump Installed? Yes No
 Manufacturer JACUZZI Type Submersible
 Capacity gpm. Depth of setting ft.

6. Well Top Sealed? Yes No

7. Pitless Adaptor Installed? Yes No

8. Well Disinfected? Yes No

9. Water Sample Submitted? Yes No

REMARKS:

P102 027

IDPH 4.065
10/68

2027

10. Property owner George Roberts Well No.

Address 4 W. Currier Dr. Barrington

Driller Richard Smetter License No. 92-227

11. Permit No. 14556 Date 9-30-71

12. Water from Limestone 13. County McHenry

Formation Limestone at depth to ft. Sec. 32.26

14. Screen: Diam. in. Twp. 44N

Length: ft. Slot Rge. 9E

Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5"</u>	<u>15 lb.</u>	<u>0</u>	<u>117'</u>

SHOW LOCATION IN SECTION PLAT

NW SE SE

16. Size Hole below casing: in.

17. Static level 10 ft. below casing top which is 1 ft. above ground level. Pumping level 10 ft. when pumping at 30 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Brown Clay</u>	<u>15'</u>	<u>15'</u>
<u>Sand & Gravel</u>	<u>35'</u>	<u>50'</u>
<u>Sandy Blue clay</u>	<u>60'</u>	<u>110'</u>
<u>Sand & Gravel</u>	<u>7'</u>	<u>117'</u>
<u>Lime stone</u>	<u>13'</u>	<u>130'</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Richard Smetter DATE Jan. 12/72

File Co
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

STRUCTURE NO. Y. ILLINOIS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

33
N 10377 740

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD
CAPER CONSTR

1. Type of Well
 a. Dug Bored Hole Diam. in. Depth 133 ft.
 Curb material Buried Slab: Yes No
 b. Driven Drive Pipe Diam. in. Depth ft.
 c. Drilled Finished in Drift In Rock
 Tubular Gravel Packed
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

10. Property owner LIPINSKI Well No.
 Address 1416 N. Fox River Valley, Carbondale
 Driller Paul H. Matthews License No. 1295
 11. Permit No. 05878 Date 12-11-70
 12. Water from GRAVEL Formation 13. County Lake McHenry
 at depth to ft. Sec. 513
 14. Screen: Diam. in. Twp. 43 N
 Length: ft. Slot Rge. 9 E
 Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	WALN T/C P/D	0	133

SHOW LOCATION IN SECTION PLAT
 lot 330 Fox River trill
 Gardens in the
 NE NW NE

2. Distance to Nearest:
 Building 75 Ft. Seepage Tile Field 75+
 Cess Pool Sewer (non Cast iron)
 Privy Sewer (Cast iron)
 Septic Tank 50+ Barnyard
 Leaching Pit Manure Pile

3. Is water from this well to be used for human consumption?
 Yes No
 4. Date well completed 7-9-71
 5. Permanent Pump Installed? Yes No
 Manufacturer no jacket Type SUB
 Capacity gpm. Depth of setting 21 ft.
 6. Well Top Sealed? Yes No
 7. Pitless Adaptor Installed? Yes No
 8. Well Disinfected? Yes No
 9. Water Sample Submitted? Yes IN PROCESS No

16. Size Hole below casing: 5 in.
 17. Static level 10 ft. below casing top which is 1 ft. above ground level. Pumping level 15 ft. when pumping at 30 gpm for hours.

18. FORMATIONS PASSED THROUGH

FORMATION PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Sandy Clay</u>	<u>0</u>	<u>12</u>
<u>Blue Clay</u>	<u>12</u>	<u>35</u>
<u>FINE GRAVEL</u>	<u>35</u>	<u>60</u>
<u>SAND</u>	<u>60</u>	<u>130</u>
<u>GRAVEL cemented</u>	<u>130</u>	<u>133</u>

REMARKS:

(CONTINUE ON SEPARATE SHEET IF NECESSARY)
 SIGNED Paul Matthews DATE 4/12/71

Well Construction Report

111-F7524-93
 201
 2742

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
 OF WELL COMPLETION AND SENT TO
 THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH
 525 WEST JEFFERSON STREET
 SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Bored Hole Diam. 5 in. Depth ft
 Buried Slab: Yes No
 b. Driven Drive Pipe Diam. in. Depth ft
 c. Drilled Finished in Drift In Rock

d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Bentonite	0	45

2. Well furnishes water for human consumption? Yes No
 3. Date well drilled August 15, 1994
 4. Permanent pump installed? Yes Date Aug. 22, 1994 No
 Manufacturer Red Jacket Type 1/2 h.p.
 Location well
 Capacity 10 gpm. Depth of setting 20 ft.
 5. Well top sealed? Yes No Type Williams
 6. Pitless adapter installed? Yes No
 Manufacturer Williams Model No. B50 ACV
 How attached to casing? mechanical seal
 7. Well disinfected? Yes No
 8. Pump and equipment disinfected Yes No

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
 Do Not Use Felt Pen

9. Driller Robert E. Efflandt License No. 102-00350
 10. Well Site Address 69 S. Circle Dr., Fox River Valley, Ga.
 11. Property Owner Bill Palluck Well No.
 12. Permit No. F7524 Date Issued 11-1-94
 13. Location: Lots 399 & 400 County McHenry

Sec. 323a
 Twp. 44N
 Rge. 9E

14. Water from Gravel-sand at depth 20 ft to 53 ft

15. Casing and Liner Pipe		to <u>53</u> ft	
Diam.(in)	Kind and Weight	From (ft)	To (ft)
<u>5</u>	<u>PVC, 200 lbs.</u>	<u>+1</u>	<u>20</u>

Show location in section plat

SESWSE
 pri

16. Screen: Diam. 5 in, Length 48 in, Slot Size 20
 17. Size hole below casing 5 in. 18. Ground Elev. +1 ft msl
 19. Static level 8 ft below casing top which is 1 ft. above ground level. Pumping level 28 ft, pumping 1 gpm for 1 hours

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
<u>Gray clay</u>	<u>0</u>	<u>20</u>
<u>Gravel-sand</u>	<u>20</u>	<u>53</u>

Continue on separate sheet if necessary.

Signed Robert Efflandt/eg Date 8/24/94

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

3.
736

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug _____ Bored _____ Hole Diam. 5 in. Depth 45 ft.
Curb material _____ Buried Slab: Yes _____ No _____
b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
c. Drilled X Finished in Drift _____ In Rock _____
Tubular _____ Gravel Packed _____
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building _____ Ft. Seepage Tile Field _____
Cess Pool _____ Sewer (non Cast iron) _____
Privy _____ Sewer (Cast iron) _____
Septic Tank _____ Barnyard _____
Leaching Pit _____ Manure Pile _____

3. Well furnishes water for human consumption? Yes X No _____

4. Date well completed 11/7/80

5. Permanent Pump Installed? Yes X Date 11/10/80 No _____

Manufacturer Aermotor Type sub Location _____
Capacity 8 gpm. Depth of Setting 20 Ft.

6. Well Top Sealed? Yes X No _____ Type _____

7. Pitless Adapter Installed? Yes X No _____

Manufacturer Baker Model Number snappy
How attached to casing? _____ compression _____

8. Well Disinfected? Yes X No _____

9. Pump and Equipment Disinfected? Yes X No _____

10. Pressure Tank Size 20 gal. Type captive air
Location _____

11. Water Sample Submitted? Yes _____ No X

REMARKS:

P227228

SCANNED

10. Property owner Cassiano Ferotti Well No. _____

Address 628 S. Circle Drive, Barrington, IL 60010

Driller William M. Boetsch License No. 92-436

11. Permit No. 97255 Date 11/7/80

12. Water from gravel 13. County McHenry

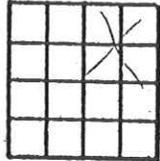
at depth 34 to 45 ft. Formation _____

14. Screen: Diam. 45 in. Sec. 5.4h

Length: 5 ft. Slot 20 Twp. 43N

Rge. 9E

Elev. _____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>pvc</u>	<u>1</u>	<u>40</u>

SHOW LOCATION IN SECTION PLAT

lot # 275 for River Valley Land NE NW NWE

16. Size Hole below casing: 5 in.

17. Static level 8 ft. below casing top which is 1 ft. above ground level. Pumping level 20 ft. when pumping at 20 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>brown clay</u>	<u>8</u>	<u>8</u>
<u>sticky blue clay</u>	<u>22</u>	<u>30</u>
<u>sand</u>	<u>4</u>	<u>34</u>
<u>heavy gravel, water, sand</u>	<u>11</u>	<u>45</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Wm. M. Boetsch DATE 11/10/80

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(36)
736

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well
 a. Dug . Bored . Hole Diam. 5 in. Depth 55 ft.
 Curb material . Buried Slab: Yes No
 b. Driven . Drive Pipe Diam. in. Depth ft.
 c. Drilled . Finished in Drift . In Rock .
 Tubular . Gravel Packed .
 d. Grout:

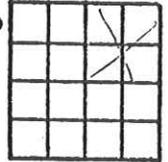
(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
 Building Ft. Seepage Tile Field
 Cess Pool Sewer (non Cast iron)
 Privy Sewer (Cast iron)
 Septic Tank Barnyard
 Leaching Pit Manure Pile
 3. Well furnishes water for human consumption? Yes No
 4. Date well completed 1/7/81
 5. Permanent Pump Installed? Yes Date 1/16/81 No
 Manufacturer Aermator Type sub Location
 Capacity 12 gpm. Depth of Setting 20 Ft.
 6. Well Top Sealed? Yes No Type
 7. Pitless Adapter Installed? Yes No
 Manufacturer Baker Model Number Snappy
 How attached to casing? compression
 8. Well Disinfected? Yes No
 9. Pump and Equipment Disinfected? Yes No
 10. Pressure Tank Size 32 gal. Type captive air
 Location crawl space
 11. Water Sample Submitted? Yes No

REMARKS:

P227234

10. Property owner Robert Wilson Well No.
 Address 505 S. Circle Dr., Barrington, IL 60010
 Driller William M. Boetsch License No. 92-436
 11. Permit No. ~~98619~~ 98619 Date 3/6/81
 12. Water from sand & gravel Formation 13. County McHenry
 at depth 35 to 60 ft. Sec. 5.3h
 14. Screen: Diam. 5 in. Twp. 43N
 Length: 5 ft. Slot 25 Rge. 9E
 Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>PVC</u>	<u>0</u>	<u>50</u>

SHOW LOCATION IN SECTION PLAT
 Lot # 988 First
 addn. to Fox Riv
 Valley Gardens

16. Size Hole below casing: in.
 17. Static level 5 ft. below casing top which is 2 ft. 81 above ground level. Pumping level 15 ft. when pumping at 30 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>black loam</u>	<u>4</u>	<u>4</u>
<u>yellow clay</u>	<u>21</u>	<u>25</u>
<u>gray clay - sand</u>	<u>10</u>	<u>35</u>
<u>gravel & sand</u>	<u>25</u>	<u>55</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED William M. Boetsch DATE 6/12/81



INSTRUCTIONS TO DRILLERS

37
N 735

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

ILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. 5 in. Depth 121 ft.
Curb material Buried Slab: Yes No
- b. Driven Drive Pipe Diam. in. Depth ft.
- c. Drilled XXXX Finished in Drift In Rock
Tubular Gravel Packed
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building Ft. Seepage Tile Field
- Cess Pool Sewer (non Cast iron)
- Privy Sewer (Cast iron)
- Septic Tank Barnyard
- Leaching Pit Manure Pile

3. Is water from this well to be used for human consumption?

Yes XXXXXX No

4. Date well completed June 20, 1974

5. Permanent Pump Installed? Yes XXXXXX No
Manufacturer Sta-rite Type submersible
Capacity 20 gpm. Depth of setting 20 ft.

6. Well Top Sealed? Yes XXXXXX No

7. Pitless Adaptor Installed? Yes XXXX No

8. Well Disinfected? Yes XXXXXX No

9. Water Sample Submitted? Yes No XXXXXX

REMARKS:

10. Property owner Mrs. Helen Sack Well No.
Address 209 Eastwood Ct, Barrington, Ill.
Driller Boetsch Water Supply, Inc. license No. 92-436

11. Permit No. 30009 Date 5-27-74

12. Water from Limestone 13. County McHenry
at depth 120 to 121 ft. Formation
Sec. 5.19

14. Screen: Diam. in. Twp. 43N
Length: ft. Slot Rge. 9E
Elev.

15. Casing and Liner Pipe PER ISGS 8/6/08

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)

SHOW LOCATION SECTION PL
Lot 102.3 - 1st add'd to River Valley Gardens St SE NENE

16. Size Hole below casing: in.
17. Static level ft. below casing top which is ft. above ground level. Pumping level ft. when pumping at gpm for hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH BOTTO
Top soil	2	2
Brown and yellow clay	8	10
Gravel and clay	110	120
Limestone	1	121

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Wm. M. Boetsch DATE July 23, 1974

P 233178

SCANNED

Well Construction Report

20
 N 755

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
 OF WELL COMPLETION AND SENT TO
 THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH
 525 WEST JEFFERSON STREET
 SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller Robert Epplander License No. 102-003506
 10. Well Site Address Lot 16, 26537 W. Lakeview Rd., The Moorings, Fox River Valley, Gardens
 11. Property Owner Traditional Homes Inc Well No. _____
 12. Permit No. 15096-04-0401 Date Issued 8/19/96
 13. Location: 097-0401-96 County LaSalle
13-03-301-001 Sec. 3.7
 NE-NW-SW Twp. 43 N
 Rge. 9 E

1. Type of Well
 a. Bored _____ Hole Diam. 5 in. Depth _____ ft
 Buried Slab: Yes _____ No X
 b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
 c. Drilled X Finished in Drift _____ In Rock X
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
<u>Bentonite</u>	<u>0</u>	<u>165</u>

14. Water from limestone at depth 165 ft
 to 180 ft
 15. Casing and Liner Pipe

Diam. (in)	Kind and Weight	From (ft)	To (ft)
<u>5</u>	<u>PVC, 200 lbs</u>	<u>+1</u>	<u>165</u>
	<u>SDR 21</u>		

Show location
 in section
 plat

2. Well furnishes water for human consumption? Yes X No _____
 3. Date well drilled November 20, 1996
 4. Permanent pump installed? Yes X Date Nov. 25, 1996 No _____
 Manufacturer Radiacore Type 3/4 hp
 Location well
 Capacity 10 gpm. Depth of setting 80 ft.
 5. Well top sealed? Yes X No _____ Type Williams
 6. Pitless adapter installed? Yes X No _____
 Manufacturer Williams Model No. B50 acv
 How attached to casing? mechanical seal
 7. Well disinfected? Yes X No _____
 8. Pump and equipment disinfected Yes X No _____

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____
 17. Size hole below casing 5 in. 18. Ground Elev. +1 ft msl.
 19. Static level 40 ft below casing top which is 1 ft. above
 ground level. Pumping level 60 ft, pumping 0 gpm for 1 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
<u>Gray clay</u>	<u>0</u>	<u>50</u>
<u>Sand-gravel</u>	<u>50</u>	<u>125</u>
<u>Broken lime-boulders-sand</u>	<u>125</u>	<u>150</u>
<u>Hardpan</u>	<u>150</u>	<u>165</u>
<u>Limestone</u>	<u>165</u>	<u>180</u>

Continue on separate sheet if necessary.

IMPORTANT NOTICE
 This State Agency is requesting disclosure of information
 that is necessary to accomplish the statutory purpose as
 outlined under Public Act 85-0863. Disclosure of this
 information is mandatory. This form has been approved by
 the Forms Management Center. P291881

PRESS FIRMLY WITH BLACK PEN OR TYPE
 Do Not Use Felt Pen

Signed Robert Epplander/eg Date 11/26/96

Well Construction Report

39
 N 755

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
 OF WELL COMPLETION AND SENT TO
 THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH
 525 WEST JEFFERSON STREET
 SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller Robert E. Eiland License No. 102-003506
 10. Well Site Address Lot 11, 26487 Southgate Trail, The Moorings, Fox River Valley, Grays
 11. Property Owner Traditional Homes, Inc Well No. _____
 12. Permit No. BD 96-04-0412 Date Issued 8/19/96
 13. Location: 097-0412-96 County LaSalle
13-03-301-018 Sec. 3170
 Twp. 43N
 Rge. 9E

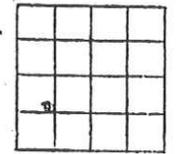
1. Type of Well
 a. Bored _____ Hole Diam. 5 in. Depth _____ ft
 Buried Slab: Yes _____ No X
 b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
 c. Drilled X Finished in Drift _____ In Rock X

(KIND)	FROM (Ft.)	TO (Ft.)
Bentonite	0	153

d. Grout: _____
 2. Well furnishes water for human consumption? Yes X No _____
 3. Date well drilled November 8, 1996
 4. Permanent pump installed? Yes X Date Nov. 12, 1996 No _____
 Manufacturer Redjack Type 1 1/2 hp
 Location well
 Capacity 15 gpm. Depth of setting 80 ft.
 5. Well top sealed? Yes X No _____ Type Williams
 6. Pitless adapter installed? Yes X No _____
 Manufacturer Williams Model No. BSO ACV
 How attached to casing? mechanical seal
 7. Well disinfected? Yes X No _____
 8. Pump and equipment disinfected Yes X No _____

14. Water from limestone at depth 153 ft

15. Casing and Liner Pipe		to <u>160</u> ft	
Diam. (in)	Kind and Weight	From (ft)	To (ft)
5	PVC, 200 lbs.	+1	153
	SDR 21		



Show location in section plat
 SE NW SW

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____
 17. Size hole below casing 5 in. 18. Ground Elev. +1 ft msl.
 19. Static level 50 ft below casing top which is 1 ft. above ground level. Pumping level 20 ft, pumping 5 gpm for 1 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
Gray clay	0	45
Gravel	45	55
Sand	55	145
Horizon	145	153
Limestone	153	160

Continue on separate sheet if necessary.

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. P291875

PRESS FIRMLY WITH BLACK PEN OR TYPE
 Do Not Use Felt Pen

Signed Robert E. Eiland Date 11/20/96

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

40
~ 740

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD
Port Barrington

1. Type of Well

- a. Dug Bored Hole Diam. 6 in. Depth 139 ft.
Curb material Buried Slab: Yes No
- b. Driven Drive Pipe Diam. in. Depth ft.
- c. Drilled Finished in Drift In Rock
Tubular Gravel Packed
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building 100 Ft. Seepage Tile Field 100
Cess Pool Sewer (non Cast iron)
Privy Sewer (Cast iron)
Septic Tank 100 Barnyard
Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes No

4. Date well completed 8-12-78

5. Permanent Pump Installed? Yes Date 8-18-78 No

Manufacturer Red Jacket Type 3h.p. Location sub-
Capacity gpm: Depth of Setting 84 Ft.

6. Well Top Sealed? Yes No Type

7. Pitless Adapter Installed? Yes No

Manufacturer Baker-Monitor Model Number Full

How attached to casing?

8. Well Disinfected? Yes No

9. Pump and Equipment Disinfected? Yes No

10. Pressure Tank Size 220 gal. Type Con Aire

Location

11. Water Sample Submitted? Yes in progress

REMARKS:

P271808

10. Property owner Jim Lytner, Well No.
Address RR #4 Box 201, River Rd, Barrington, IL
Driller Fred H. Matthesius License No. 102-88

11. Permit No. 78198 Date 8-15-78

12. Water from gravel Formation 13. County Lake

at depth to ft. Sec. 37b
14. Screen: Diam. in. Twp. 43N
Length: ft. Slot Rge. 9E
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6	19.45# galv. T/C R & D		

SHOW LOCATION IN SECTION PLAT
NE SW SW

16. Size Hole below casing: 6 in.

17. Static level 15 ft. below casing top which is one ft. above ground level. Pumping level 35 ft. when pumping at 50 gpm for hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
clay	0	10
sand	10	30
clay	30	40
sand	40	135
gravel	135	139

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Fred H. Matthesius DATE 9-13-78
MCHENRY COUNTY WELL & PUMP CO.
3200 N. Richmond Rd. (Rt. 31)
McHenry, Illinois 60050
(815) 385-5252

White & Pink I
I ealt.. actor
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Golden Copy: V...

Well Construction Report

*Maybe a duplicate

41
#738

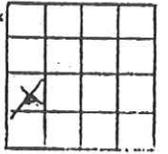
THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller RICHARD SNETTEN License No. 092-002278
10. Well Site Address LOT 8, 25663 COUNTRYSIDE DR. LAKE BARR
11. Property Owner ISD 91-04-0329 Well No. _____
12. Permit No. MIKE PRATE Date Issued 10-15-91
13. Location: SE, NW, SW County LAKE

Tanglewood Est.

be
Sec. 3
Twp. 43N
Rge. 9E



Show location in section plat
SE NW SW
private
SW SE NW
according to
ISGS '7-24

1. Type of Well
a. Bored _____ Hole Diam. _____ in. Depth _____ ft
Buried Slab: Yes _____ No _____
b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
c. Drilled X Finished in Drift _____ In Rock X

(KIND)	FROM (Ft.)	TO (Ft.)
CLAY BENTONITE	0'	148'

d. Grout: _____
2. Well furnishes water for human consumption? Yes X No _____
3. Date well drilled 12-18-91
4. Permanent pump installed? Yes X Date 2-20-92 No _____
Manufacturer RED JACKET Type SUB
Location WELL
Capacity 150 gpm. Depth of setting 100 ft.
5. Well top sealed? Yes X No _____ Type VENTED CAP
6. Pitless adapter installed? Yes X No _____
Manufacturer BAKER Model No. _____
How attached to casing? COUPLED
7. Well disinfected? Yes X No _____
8. Pump and equipment disinfected Yes X No _____

14. Water from LIMESTONE at depth 198' ft

15. Casing and Liner Pipe		to <u>18'</u> ft	
Diam. (in)	Kind and Weight	From (ft)	To (ft)
5"	PVC	0'	148'

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____
17. Size hole below casing 5 in. 18. Ground Elev. _____ ft msl.
19. Static level 18 ft below casing top which is 1 ft. above ground level. Pumping level 18 ft, pumping ⁴⁸ gpm for 3 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
BROWN CLAY	0'	10'
PEAT	10'	20'
SAND + GRAVEL	20'	25'
BLUE CLAY	25'	110'
SAND + GRAVEL	110'	148'
LIMESTONE	148'	195'
BROWN SHALE	195'	198'

Continue on separate sheet if necessary.

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

P239123 Co # 36542

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

Signed Peter Snetten Date 2-20-92

Ill
Well
Gold

Publ
Well Contractor
Well Owner

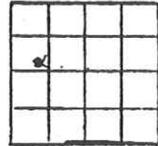
Well Construction Report #95-22

42
2740

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF WELL COMPLETION AND SENT TO THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH 525 WEST JEFFERSON STREET SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller GREG SNETTEN License No. 092-006972
10. Well Site Address 10222, COUNTRYSIDE DR. L. BARRINGT
11. Property Owner COUNTRYSIDE HOMES Well No. _____
12. Permit No. ISD 95-04-0139 Date Issued 3-24-95
13. Location: SE, SW, NW County LAKE
13-03-303-001 Sec. 3
Twp. 43N
Rge. 4E



1. Type of Well
a. Bored _____ Hole Diam. 7 7/8 in. Depth _____ ft
Buried Slab: Yes _____ No _____
b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
c. Drilled X Finished in Drift X In Rock _____

(KIND)	FROM (Ft.)	TO (Ft.)
CLAY BENTONITE	0'	69'

2. Well furnishes water for human consumption? Yes X No _____
3. Date well drilled 7-11-95
4. Permanent pump installed? Yes X Date 8-1-95 No _____
Manufacturer RED JACKET Type SUB
Location WELL
Capacity 70 gpm. Depth of setting 60' ft.
5. Well top sealed? Yes X No _____ Type VENTED CAP
6. Pitless adapter installed? Yes X No _____
Manufacturer WILLIAMS Model No. B-50ACV'S
How attached to casing? COUPLED
7. Well disinfected? Yes X No _____
8. Pump and equipment disinfected Yes X No _____

14. Water from GRAVEL at depth 72' ft to 30' ft

Diam. (in)	Kind and Weight	From (ft)	To (ft)
5"	PVC SCH 40	0'	69'

Show location in section plat

SE, SW, NW, NE, S
according to
LOT 22 724
TANGLEWOOD

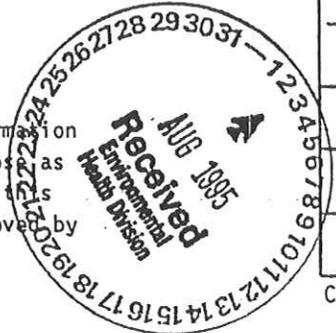
16. Screen: Diam. 5" in, Length 30" in, Slot Size 25
17. Size hole below casing φ in. 18. Ground Elev. 763. ft msl.
19. Static level 30' ft below casing top which is 1' ft. above ground level. Pumping level 30' ft, pumping gpm for 3 hours.

Earth Materials Passed Through	Depth of Top	Depth of Bottom
BROWN CLAY	0'	15'
SAND	15'	60'
GRAVEL	60'	72'

Continue on separate sheet if necessary.

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purposes as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. P276039



PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

39007

Signed Greg Snetten Date 8-2-95

127624

TYPE OR PRESS FIRMLY WITH BLACK INK PEN
COMPLETE WITHIN 30 DAYS OF WELL COMPLETION
AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT

Well Construction Report

097-0945-99

Date 2/15/00

GEOLOGICAL & WATER SURVEY WELL RECORD

1. Type of Well: a. **Driven** Well: Casing diam. _____ in. Depth _____ ft.
 b. **Bored** Well: Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. **Drilled** Well: PVC casing Formation packer set at depth of _____ ft.
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- d. **Drilled** Well: **Steel** Casing-- Mechanically Driven [x] Yes [] No
 Hole Diameter 5 in. to 134 ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
Bentonite	5	—	134'	grade	—
BEUSEAL GRANULAR					

- e. Well finished within: [] Unconsolidated Materials [x] Bedrock

Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use: [x] Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other

3. Date Well Completed: 2/11/00 Well Disinfected [x] Yes [] No
 Driller's estimated well yield _____ gpm

4. Date Permanent Pump Installed 2/11/00
 5. Pump Capacity 20 gpm. gpm Set at (depth) 80' ft.

6. Pitless Adapter Model and Manufacturer: B50ACVS
 7. Well Cap Type and Manufacturer: Williams vented

8. Pressure Tank: Working Cycle 13.6 gals. Captive Air: [x] Yes [] No

9. Pump System Disinfected: [x] Yes [] No

10. Name of Pump Company A & C Snelten, Inc.

11. Pump Installer: Stephen A. Snelten License # 102-003167

12. SNELTEN (RMS) License # 102-003167
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson Street
 Springfield, IL 62761
 eo # 28500

DO Not write on these lines

IMPORTANT NOTICE: This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.
 L 432-0126 rev. 12/98

13. Property Owner Bill Street Well # _____
 14. Driller Cornelius J. Snelten III License # _____ 15.
 Name of Drilling Company A & C Snelten, Inc. 16.
 Permit No. #99 04 0945 Date Issued _____
 17. Date Drilling Started 11/23/99

18. Well SITE address Lot #2, River Trail Drive, Fox River Valley
 Township Name Cuba Land ID# 13-03-301-02720
 Subdivision Name Fox River Lawn Lot # 2 21.

- Location: a. County Lake
 b. Township 43N Range 10E9E Section 3
 c. NW Quarter NW Quarter SW Quarter
 d. coordinates: _____ Site Elevation _____ ft.(msl)

22. Casings, Liners*, & Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5 in.	Galv. steel			1+	134'

For Survey Use Only

- (*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from Limestone at a depth of 123 ft. to 134 ft.
 a. static water level 3 ft. below casing which is 12 in. above ground
 b. pumping level is 80' ft. pumping 20 gpm after pumping for 4 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
Sand and gravel	0'	15'
Gray sand	15'	108'
Gravel and sand	108'	114'
Clay	114'	123'
Gravel/ Limestone	123'	134'



(If DRY HOLE, fill out log & indicate how hole was sealed)

Stephen A. Snelten
 25. Licensed Water Well Contractor Signature

#102-003167
 License Number

45
 2737

742

TYPE OR SS FIRMLY WITH BLACK INK PEN
COMPLETE WITHIN 30 DAYS OF WELL COMPLETION
AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT

097-15-1030-02

GEOLOGICAL AND WATER SURVEY WELL RECORD

- 1. Type of Well: a. Driven Well: Casing diam. _____ in. Depth _____ ft.
- b. Bored Well: Buried Slab Yes No
Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
- c. Drilled Well: PVC casing Formation packer set at depth of _____ ft.
Hole Diameter 9 in. to 123 ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft)	To (ft)	Tremie Depth (ft)
Bentonite	8		Grade	124	

- d. Drilled Well: Steel Casing --- Mechanically Driven Yes No
Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft)	To (ft)	Tremie Depth (ft)

- e. Well finished within: Unconsolidated Materials Bedrock

f. Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

- 2. Well Use: Domestic Irrigation Commercial Livestock
 Monitoring Other
- 3. Date Well Completed 12/26/02 Well Disinfected Yes No
Driller's estimated well yield 35 gpm
- 4. Date Permanent Pump Installed 12/30/02
- 5. Pump Capacity 14 gpm Set at (depth) 80 ft.
- 6. Pitless Adapter Model and Manufacturer: Martinson
- 7. Well Cap Type and Manufacturer: Lunde
- 8. Pressure Tank: Working Cycle 13.5 gals. Captive Air: Yes No
- 9. Pump System Disinfected: Yes No
- 10. Name of Pump Company Henry Boysen Company, Inc.
- 11. Pump Installer: George E. Gaffke License # 102-002342
- 12. _____ License # 102-002342
Licensed Pump Contractor Signature

Illinois Department of Public Health
Division of Environmental Health
525 W. Jefferson Street
Springfield, IL 62761

CO # 47323

DO Not write on these lines

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IL 482-0126 rev. 12/98

- 13. Property Owner Kirk Homes Well # _____
- 14. Driller George E. Gaffke License # 102-002342
- 15. Name of Drilling Company Henry Boysen Company, Inc.
- 16. Permit No. 097-1030-02 Date Issued 11/13/02
- 17. Date Drilling Started 12/26/02
- 18. Well SITE address 1204 Noble Drive
- 19. Township Name Wauconda Land ID # 09-33-100-005
- 20. Subdivision Name Deer Grove Lot # 2
- 21. Location: a. County Lake
b. Township 44N Range 09E Section 33 .7e
c. SE Quarter SW Quarter NW Quarter
d. coordinates: _____ Site Elevation _____ ft (msl)

22. Casings, Liners*, & Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft)	To (ft)
5"	SDR21 PVC	Certalok		+1	103
5"	A53 Steel	T & C		103	123

For Survey Use Only

(*) _____
(List reason for liner, type of upper and lower seals installed)

- 23. Water from Limestone at a depth of 123 ft. to 124 ft.
a. static water level 10 ft. below casing which is 12 in. above ground
b. pumping level is _____ ft. pumping 35 gpm after pumping for 1 hrs.

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
Fill	0	3
Brown Clay	3	12
Brown Sand	12	25
Sand & Gravel	25	40
Fine Sand	40	101
Sand Blue Clay	101	120
Sand & Gravel	120	123
Limestone	123	124

(IF DRY HOLE, fill out log & indicate how hole was sealed)

25. Licensed Water Well Contractor Signature

License Number

JAN 13 2004
ENVIRONMENTAL HEALTH 102-002342

Date 9-15-04 ¹³

TYPE OR PRESS FIRMLY WITH BLACK INK PEN. COMPLETE WITHIN 30 DAYS OF WELL COMPLETION AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT.

#04-57

GEOLOGICAL AND WATER SURVEY WELL RECORD

1. Type of Well a. Driven Well Casing diam. _____ in. Depth _____ ft.
 b. Bored Well Buried Slab Yes No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. Drilled Well PVC casing Formation packer set at depth of _____ ft.
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- d. Drilled Well Steel Casing-- Mechanically Driven, Yes No
 Hole Diameter 8" in. to 20' ft. 5 9/16" in. to 125' ft. 4 3/4" in. to 128' ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
BENTONITE			0'	120'	20'

- e. Well finished within Unconsolidated Materials Bedrock

f. Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use Domestic Irrigation Commercial Livestock
 Monitoring Other

3. Date Well Completed 8-28-04 Well Disinfected Yes No

Driller's estimated well yield 20+ gpm

4. Date Permanent Pump Installed 9-15-04

5. Pump Capacity 10+ gpm Set at (depth) 40' ft.

6. Pitless Adapter Model and Manufacturer CAMPBELL BPIOX

7. Well Cap Type and Manufacturer VENTED & GASKETED

8. Pressure Tank Working Cycle 18 gals. Captive Air Yes No

9. Pump System Disinfected Yes No

10. Name of Pump Company PETER SNELTEN & SONS

1. Pump Installer TODD SNELTEN License # _____

2. Jeffrey A. Snellen License # _____

Licensed Pump Contractor Signature

Illinois Department of Public Health
Division of Environmental Health
525 W. Jefferson St.
Springfield, IL 62761

Co. # 50270

DO NOT write on these lines

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13. Property Owner ERIC MUELLER Well # Z
 14. Driller RANDY ROSSET License # 092-003698

15. Name of Drilling Co. ROSSET WELL & PUMP SERVICE

16. Permit No. AP#128152-04 Date Issued 5-21-04

17. Date Drilling Started 8-1-04

18. Well SITE address 28640 W. PARK WAUCONDA

19. Township Name WAUCONDA Land ID # 09-33-10Z-001

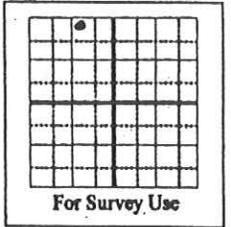
20. Subdivision Name WILLIAMS PARK Lot # 221 + 222

21. Location a. County LAKE

- b. Township 44N Range 9E Section 336 H.

- c. NW Quarter NE Quarter NW Quarter

- d. Coordinates _____ Site Elevation 733 ft. (msl)



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	GAU.	THRD		0'	125'
4 3/4"	ROCK			125'	128'
A53B					

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from LIMESTONE at a depth of 128' ft. to 125' ft.

- a. Static water level 1' ft. below casing which is 6ft. above ground

- b. Pumping level is 10' ft. pumping 12+ gpm after pumping for 1 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
BLACK PEAT	0'	15'
BROWN CLAY	15'	23'
SAND	23'	30'
BLUE CLAY	30'	60'
SAND	60'	110'
CLAY & SAND MIX	110'	118'
BROKEN ROCK	118'	125'
LIMESTONE	125'	128'

(If dry hole, fill out log and indicate how hole was sealed.)

25. Licensed Water Well Contractor Signature Jeffrey A. Snellen

License Number 102-004256

097 - 1058-02

Date 3-12-02

5
2737

TYPE OR PRESS FIRMLY WITH BLACK INK PEN. COMPLETE WITHIN 30 DAYS OF WELL COMPLETION AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT.

GEOLOGICAL AND WATER SURVEY WELL RECORD

1. Type of Well a. **Driven Well** Casing diam. _____ in. Depth _____ ft.
 b. **Bored Well Buried Slab** [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. **Drilled Well PVC casing** Formation packer set at depth of _____ ft.
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- d. **Drilled Well Steel Casing** --- Mechanically Driven [X] Yes [] No
 Hole Diameter 5 in. to 2 ft. 6 Above 112 ft. 0 in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
casing seal			0	112	

- e. Well finished within [X] Unconsolidated Materials [] Bedrock

f. Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use [X] Domestic [] Irrigation [] Commercial [] Livestock [] Monitoring [] Other

3. Date Well Completed 3-12-02 Well Disinfected [X] Yes [] No
 Driller's estimated well yield 25 gpm

4. Date Permanent Pump Installed 3-13-02
 5. Pump Capacity 10 gpm Set at (depth) 10 ft.

6. Pitless Adapter Model and Manufacturer Martinson BP10X
 7. Well Cap Type and Manufacturer Baker Monitor
 8. Pressure Tank Working Cycle 10 gals. Captive Air [X] Yes [] No

9. Pump System Disinfected [X] Yes [] No
 10. Name of Pump Company McHenry County Well & Pump Company

11. Pump Installer Robert E. Howe, JR License # 102-000809

12. Robert E. Howe, JR. License # 102-000809
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson St.
 Springfield, IL 62761

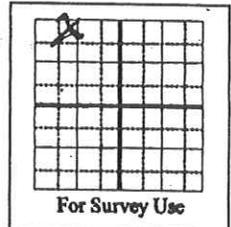
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13. Property Owner Janusz Kusz Well # _____
 14. Driller William Swinford License # _____
 15. Name of Drilling Co. McHenry County Well & Pump Company
 16. Permit No. WW02-15-0058 Date Issued 1-29-02
 17. Date Drilling Started 3-7-02
 18. Well SITE address 28484 East Park Ave.
 19. Township Name Wauconda Land ID # 09-33-201-002
 20. Subdivision Name 1st Add. Williams Park Lot # 188 & 1/2 of 189
 21. Location a. County Lake

- b. Township 44N Range 9E Section 33 44
 c. NW Quarter NW Quarter NE Quarter
 d. Coordinates _____ Site Elevation _____ ft. (msl)



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5	ASTM A53B Galv.	T/C		+2 1/2	112
4	S/S	T/C	15	112	115

(List reason for liner, type of upper and lower seals installed)

23. Water from sand & gravel at a depth of 112 ft. to 115 ft.
 a. Static water level 8" ~~xx~~ below casing which is 30 in. above ground
 b. Pumping level is 22" ~~xx~~ pumping 25 gpm after pumping for 24 hours

24. Earth Materials Passed Through	From (ft.)	To (ft.)
black muck	0	19
mucky sand	19	63
clay	63	110
sand & gravel	110	115

(If dry hole, fill out log and indicate how hole was sealed.)

Robert E. Howe, JR. License Number 102-000809
 25. Licensed Water Well Contractor Signature

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION



Illinois Department of Public Health
WATER WELL CONSTRUCTION RECORD

TYPE OR PRESS FIRMLY WITH BLACK INK PEN. COMPLETE WITHIN 30 DAYS OF WELL COMPLETION AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT.

#07-89

Date 3-4-08

57
1737 ✓

1. Type of Well a. Driven Well Casing diam. _____ in. Depth _____ ft.
 b. Bored Well Buried Slab Yes No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. Drilled Well PVC casing Formation packer set at depth of _____ ft.
 Hole Diameter 9 1/8 in. to 118 ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
BENTONITE	11	9#	0'	118'	20'

- d. Drilled Well Steel Casing - - Mechanically Driven Yes No
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- e. Well finished within Unconsolidated Materials Bedrock

- f. Kind of Gravel Sand Pack Grain Size/Supplier # From (ft.) To (ft.)

Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use Domestic Irrigation Commercial Livestock
 Monitoring Other

3. Date Well Completed 2-29-08 Well Disinfected Yes No
 Driller's estimated well yield 15 gpm

4. Date Permanent Pump Installed 3-3-08
 Pump Capacity 10 gpm Set at (depth) 60' ft.

5. Pitless Adapter Model and Manufacturer CAMPBELL BPIOX

7. Well Cap Type and Manufacturer LINDE VENTED & GASKETED

8. Pressure Tank Working Cycle 10 gals. Captive Air Yes No

9. Pump System Disinfected Yes No

10. Name of Pump Company PETER SNELTEN & SONS, INC.

11. Pump Installer RYAN SNELTEN License # _____

12. Richard Snelten Jr. License # 101-003747
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson St.
 Springfield, IL 62761

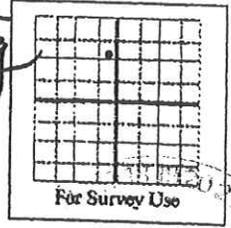
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DO NOT write on these lines

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GEOLOGICAL AND WATER SURVEY WELL RECORD

13. Property Owner SHIRLEY LIEBERT Well # Z
 14. Driller JUAN DEALBA License # 092-006972
 15. Name of Drilling Co. PETER SNELTEN & SONS, INC.
 16. Permit No. AP# 163444-08 Date Issued 2-19-08
 17. Date Drilling Started 2-29-08
 18. Well SITE address 26832 LIEBERT ST. WAUCONDA
 19. Township Name WAUCONDA Land ID # 09-33-108-014
 20. Subdivision Name WILLIAMS PARK Lot # _____
 21. Location a. County LAKE
 b. Township 44N Range 9E Section 33
 c. SE Quarter NE Quarter NW Quarter
 d. Coordinates N42° 10.272 Site Elevation _____ ft. (msl)
W088° 05.007



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	SOLVENT WELD		0'	118'
ASTM D-2241		SDR 17			

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from LIMESTONE at a depth of 118' ft to 118' ft.
 a. Static water level 5' ft below casing which is 12" in. above ground
 b. Pumping level is 27' ft pumping 10+ gpm after pumping for 4 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
BLACK DIRT	0'	4'
SAND & GRAVEL	4'	58'
GRAVEL	58'	67'
SAND & GRAVEL	67'	113'
GRAVEL	113'	118'
LIMESTONE	118'	

(If dry hole, fill out log and indicate how hole was sealed.)

25. Licensed Water Well Contractor Signature Peter Snelten License Number 092-006972

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

TO DRILLERS

REQUESTED AND MAIL ORIGINAL TO STATE

54
2742

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well
 a. Dug Bored Hole Diam. 5 in. Depth 113 ft.
 Curb material Buried Slab: Yes No
 b. Driven Drive Pipe Diam. in. Depth ft.
 c. Drilled Finished in Drift In Rock
 Tubular Gravel Packed
 d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

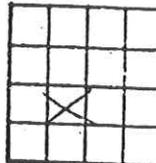
2. Distance to Nearest:
 Building Ft. Seepage Tile Field
 Cess Pool Sewer (non Cast iron)
 Privy Sewer (Cast iron)
 Septic Tank Barnyard
 Leaching Pit Manure Pile
 3. Well furnishes water for human consumption? Yes No
 4. Date well completed 4/16/76
 5. Permanent Pump Installed? Yes Date No
 Manufacturer Aermotor Type sub. Location
 Capacity 10 gpm. Depth of Setting 20 Ft.
 6. Well Top Sealed? Yes No Type Watertite
 7. Pitless Adapter Installed? Yes No
 Manufacturer Baker Model Number Snappy
 How attached to casing? Compression
 8. Well Disinfected? Yes No
 9. Pump and Equipment Disinfected? Yes No
 10. Pressure Tank Size 42 gal. Type Medalist
 Location
 11. Water Sample Submitted? Yes No

REMARKS:

P 330688

IDPH 4.065
1/74 - KNB-1

10. Property owner Julianna Perz Well No.
 Address 435 Maple Wauconda, Illinois 60084
 Driller William M. Boetsch License No. 92-436
 11. Permit No. 46156 Date 4/12/76
 12. Water from Shell rock Formation
 at depth 100 to 113+ ft. Sec. 33
 14. Screen: Diam. in. Twp. 44N
 Length: ft. Slot Rge. 9E
 Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>PVC</u>	<u>1</u>	<u>112</u>

SHOW LOCATION IN SECTION PLAT
 Lot # 435 1st
 Add: William
Park on Shore
Lake NE N

16. Size Hole below casing: 5 in.
 17. Static level 5 ft. below casing top which is 1 ft.
 above ground level. Pumping level 30 ft. when pumping at 8
 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Top soil</u>	<u>2</u>	<u>2</u>
<u>Sand and gravel</u>	<u>98</u>	<u>100</u>
<u>Shell rock</u>	<u>13+</u>	<u>113+</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED William M. Boetsch DATE 4/19/76

Ill. Dept. of Public Health
 Yellow Copy - Well Contractor
 Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

55
 2748

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
 WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug Bored Hole Diam. 5 in. Depth 125 ft.
 Curb material Buried Slab: Yes No
- b. Driven Drive Pipe Diam. in. Depth ft.
- c. Drilled Finished in Drift In Rock
 Tubular Gravel Packed
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

- Building Ft. Seepage Tile Field
- Cess Pool Sewer (non Cast iron)
- Privy Sewer (Cast iron)
- Septic Tank Barnyard
- Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes No

4. Date well completed 5/2/80

5. Permanent Pump Installed? Yes Date 5/8/80 No

Manufacturer Aermotor Type sub Location
 Capacity 12 gpm. Depth of Setting 20 Ft.

6. Well Top Sealed? Yes No Type

7. Pitless Adapter Installed? Yes No

Manufacturer Baker Model Number snappy
 How attached to casing? compression

8. Well Disinfected? Yes No

9. Pump and Equipment Disinfected? Yes No

10. Pressure Tank Size 42 gal. Type captive air
 Location

11. Water Sample Submitted? Yes No

REMARKS:

10. Property owner Donald Schoeninger Well No.

Address 171 Ada, Wauconda, IL 60084

Driller William M. Boetsch License No. 92-436

11. Permit No. 93241 Date 4/4/80

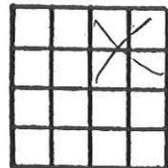
12. Water from limestone 13. County Lake

Formation
 at depth 124 to 125 ft. Sec. 33

14. Screen: Diam. in. Twp. 44N

Length: ft. Slot Rge. 9E

Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	pvc	1	104
5	black steel	104	124

SHOW LOCATION IN SECTION PLAT
 lot 141 1st Add to Williams Park on Sloum Lake NE

16. Size Hole below casing: 5 in.

17. Static level 2 ft. below casing top which is 1 ft. above ground level. Pumping level 20 ft. when pumping at 50 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
black loam	10	10
gray clay	30	40
fine sand	10	50
blue clay	20	70
fine sand	20	90
gravel, fine sand	10	100
gray clay, sand, boulders	24	124
limestone boulders	1	125

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Wm. M. Boetsch DATE 5/9/80

P 330689

Date 8/5/05 ⁽⁵⁰⁾ 2750

TYPE OR PRESS FIRMLY WITH BLACK INK PEN. COMPLETE WITHIN 30 DAYS OF WELL COMPLETION AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT.

1. Type of Well a. Driven Well Casing diam. _____ in. Depth _____ ft.
 b. Bored Well Buried Slab Yes No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. Drilled Well PVC casing Formation packer set at depth of _____ ft.
 Hole Diameter 9 in. to 154' ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
Wyoben DF			151'	grade	

- d. Drilled Well Steel Casing- - Mechanically Driven Yes No
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- e. Well finished within Unconsolidated Materials Bedrock

f. Kind of Gravel Sand Pack Grain Size/Supplier # From (ft.) To (ft.)

--	--	--	--

2. Well Use Domestic Irrigation Commercial Livestock
 Monitoring Other
 3. Date Well Completed 8/5/05 Well Disinfected Yes No
 Driller's estimated well yield 20 gpm
 4. Date Permanent Pump Installed 8/5/05
 5. Pump Capacity 10 gpm Set at (depth) 100 ft.
 6. Pitless Adapter Model and Manufacturer Williams B50ACVS
 7. Well Cap Type and Manufacturer Williams vented
 8. Pressure Tank Working Cycle used existing 100 gpm tank Yes No
 9. Pump System Disinfected Yes No
 10. Name of Pump Company A & C Snelten, Inc.
 11. Pump Installer Stephen A. Snelten License # 102-003167
 12. S A SNETLEN (LMS) License # 102-003167
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson St.
 Springfield, IL 62761

Co. # 50921

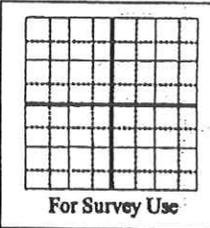
DO NOT write on these lines

SCANNED

IMPORTANT NOTICE: This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.

GEOLOGICAL AND WATER SURVEY WELL RECORD

13. Property Owner Mr. and Mrs. Schaeve Well # _____
 14. Driller Cornelius J. Snelten III License # 102-003175
 15. Name of Drilling Co. A & C Snelten, Inc.
 16. Permit No. 097-138657-05 Date Issued _____
 17. Date Drilling Started 7/25/05
 18. Well SITE address 26860 Brooks Street, Wauconda, IL.
 19. Township Name Wauconda Land ID # 09-33-214-022
 20. Subdivision Name Williams Park Lot # 125 & 126
 21. Location a. County Lake
 b. Township 44N Range 9E Section 33
 c. SW Quarter NE Quarter NE Quarter
 d. Coordinates _____ Site Elevation _____ ft. (msl)



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5 in.	PVC SDR	21		1+'	130'
5 in.	Black st.	A53B		130'	151'

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from Limestone at a depth of 151' ft. to 154' ft.
 a. Static water level 25' ft. below casing which is 12 in. above ground
 b. Pumping level is 100 ft. pumping 10 gpm after pumping for 4 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
Clay	0'	4'
Sandy clay	4'	30'
Gravel	30'	34'
Sandy clay	34'	140'
Broken lime	140'	151'
Limestone	151'	154'

(If dry hole, fill out log and indicate how hole was sealed.)

- S A SNETLEN (LMS) #102-003167
 25. Licensed Water Well Contractor Signature License Number

#99 4

ILLINOIS STATE REFERENCE

Date 3-1-99

W 99-15-0023

15-32-277-017

57
~748

TYPE OR PRESS FIRMLY WITH BLACK INK PEN, THIS FORM MUST BE COMPLETED WITHIN 30 DAYS OF COMPLETION AND SENT TO THE APPROPRIATE HEALTH DEPARTMENT

GEOLOGICAL AND WATER SURVEY WELL RECORD

- Date Well Completed 3-4-99
- Use: Domestic Irrigation Commercial Livestock
 Monitoring Other
- Type of Well:
 - Bored Well: Hole Diameter _____ in. Depth _____ ft.
Casing Diameter _____ in. Buried Slab: Yes No
 - Driven Well: Drive Pipe Diameter _____ in. Depth _____ ft.
 - Drilled Well: Well Diameter 9" in. Depth 42' ft.
Casing Diameter 5" in. Type PVC Joint GLUED
- Casing Grout:

Kind	Drill Hole(In)	From(ft)	To(ft)
CLAY BENTONITE GROUT	9"	0'	39'
- Finished In: Unconsolidated Gravel Pack: Yes No
Rock Grain Size _____
- Well Disinfected? Yes No
- Date Permanent Pump Installed 3-8-99
- Licensed Pump Contractor JEFF SNELTEN
License Number 102-004256
- Pitless Adapter Installed? Yes No
Manufacturer BAKER Model 1-BP
Attached to Casing - How? Screwed On Welded Compression
- Type of Well Cap VENTED & GASKETED
- Tank Working Cycle 10 gallons Captive Air: Yes No
- Pump and Equipment Disinfected? Yes No

- Permit Number 097-0023-99 Date Issued 1-25-99
- Property Owner LAKELAND HOMES Well # 1
- Drilling Company Name PETER SNELTEN & SONS INC.
- Name of Person who drilled the well GREG SNELTEN
- Well Site Address 313 GARRISON CIRCLE BARRINGTON
- Township Name WADCONDA Land ID# 15-32-277-017
- Subdivision Name "RIVERWALK", 8e Lot 87 Elevation 48.10 ft.
- Location: Cnty LAKE Sect 33 Township 49N Range 9E
SW Quarter of the SW Quarter of the NW Quarter
- Casing and Liner Pipe:

Dia (In)	Type	From(ft)	To (ft)
5"	PVC SDR 21	0'	39'
	ASTM D-2241		
	NSF HX691R43A		
- Screen:

Diameter	Length	Slot Size	Material
5" in.	3' ft.	15	STAINLESS

- Water from GRAVEL at depth 42' ft. to 10' ft.
- Static Level 10' ft. below casing top which is 12" in. above ground level.
Pumping Level 15' ft. Pumping 10+ gpm for 2 hours.

Earth Materials Passed Through	Depth Top(ft)	Depth Bottom(ft)
BROWN CLAY	0'	15'
SAND & GRAVEL	15'	32'
GRAVEL	32'	42'

General Comments: (If dry hole, fill out log & indicate how hole was sealed.)

Illinois Department of Public Health
Division of Environmental Health - 525 W. Jefferson
Springfield, IL 62761

CO# 41084

IMPORTANT NOTICE. This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

Continue on back of sheet if necessary

Jeffrey A. Snellen License Number 102-004256

TYPE OR PRESS FIRMLY WITH BLACK INK
 COMPLETE WITHIN 30 DAYS OF WELL COMPLETION
 AND SEND TO THE APPROPRIATE HEALTH DEPARTMENT

Well Construction Report

#44-162

111-11275-9
 Date 10-2-99

38
 745

1. Type of Well: a. **Driven Well**: Casing diam. _____ in. Depth _____ ft.
 b. **Bored Well**: Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. **Drilled Well**: PVC casing Formation packer set at depth of 38' ft.
 Hole Diameter 9" in. to 40' ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
BENTONITE	4	9#	0'	38'	20'

- d. **Drilled Well**: Steel Casing --- Mechanically Driven [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

e. Well finished within: Unconsolidated Materials [] Bedrock

Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use: Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other

3. Date Well Completed: 9-13-99 Well Disinfected Yes [] No
 Driller's estimated well yield 30 gpm

4. Date Permanent Pump Installed 10-2-99
 5. Pump Capacity 10+ gpm Set at (depth) 20' ft.

6. Fittings Adapter Model and Manufacturer: BAKER 1-BP

7. Well Cap Type and Manufacturer: VENTED & GASKETED MONITOR

8. Pressure Tank: Working Cycle 10 gals. Captive Air: Yes [] No

9. Pump System Disinfected: Yes [] No

10. Name of Pump Company: PETER SNELTEN & SONS INC.

1. Pump Installer: JEFF SNELTEN License # 102-004256

2. Joseph A. Snelten License # _____
 Licensed Pump Contractor Signature Co # 37233

Illinois Department of Public Health
 Division of Environmental Health
 25 W. Jefferson Street
 Springfield, IL 62761

P-321852 DO Not write on these lines

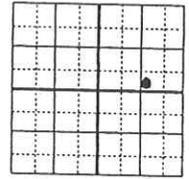
IMPORTANT NOTICE: This State Agency is requesting disclosure of information that is necessary to accomplish the regulatory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.
 L 4:2-0126 rev. 12/98

- GEOLOGICAL & WATER SURVEY WELL RECORD
 13. Property Owner: LAKELAND HOMES / TAYLOR Well # 1
 14. Driller: GREG SNELTEN License # 092-006972
 Name of Drilling Company: PETER SNELTEN & SONS INC.
 Permit No. H-1275 Date Issued 8-18-99
 17. Date Drilling Started: 9-13-99
 18. Well SITE address: 31113 RIVERWALK LN. BARRINGTON
 Township Name: NUNDA Land ID # 15-32-280-012
 Subdivision Name: RIVERWALK Lot # 13
 Location: a. County: MCHENRY

- b. Township: 44N Range: 9E Section: 32
 c. SW Quarter: SE Quarter: NE Quarter
 d. coordinates: _____ Site Elevation 45 ft.(msl)

22. Casings, Liners*, & Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	GLUED		0'	38'
5"	SS	TH	15	38	41'
ASTM	D-2241				



For Survey Use Only

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from SAND & GRAVEL at a depth of 41' ft. to 8' ft.
 a. static water level 8' ft. below casing which is 12" in. above ground
 b. pumping level is 10 ft. pumping 10+ gpm after pumping for 1 hours

24. Earth Materials Passed Through

From (ft.)	To (ft.)
0'	32'
32'	41'

(If DRY HOLE, fill out log & indicate how hole was sealed)

Joseph A. Snelten License Number 10-2-99
 25. Licensed Water Well Contractor Signature

111-145703-01

Date 10-3-01

21 N 745

TYPE OR PRESS FIRMLY WITH BLACK INK PEN
WILL COMPLETION AND SEND TO THE APPROPRIATE H

COMPLETE WITHIN 30 DAYS OF
DEPARTMENT.

#01-97

1. Type of Well a. **Driven Well** Casing diam. _____ in. Depth _____ ft.
 b. **Bored Well Buried Slab** [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. **Drilled Well PVC casing** Formation packer set at depth of 40' ft.
 Hole Diameter 9" in. to 44' ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
MENTONITE	3	9#	0'	40'	20'

- d. **Drilled Well Steel Casing** --- Mechanically Driven [] Yes [] No
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- e. Well finished within Unconsolidated Materials [] Bedrock

- f. Kind of Gravel Sand Pack Grain Size/Supplier # From (ft.) To (ft.)

Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other

3. Date Well Completed 9-8-01 Well Disinfected Yes [] No
 Driller's estimated well yield 45 gpm

4. Date Permanent Pump Installed 10-3-01
 5. Pump Capacity 10 gpm Set at (depth) 20' ft.

6. Pitless Adapter Model and Manufacturer CAMPBELL BPIOX

7. Well Cap Type and Manufacturer VENTED & GASKETED

8. Pressure Tank Working Cycle 10 gals. Captive Air Yes [] No

9. Pump System Disinfected Yes [] No

10. Name of Pump Company PETER SNELTEN & SONS

11. Pump Installer JEFF SNELTEN License # 102-004256

12. Jeffrey A. Snelten License # _____
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 523 W. Jefferson St.
 Springfield, IL 62761

cc# 39523

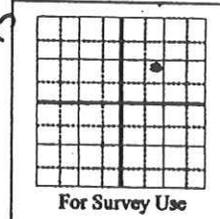
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GEOLOGICAL AND WATER SURVEY WELL RECORD

13. Property Owner LAKELAND HOMES Well # 1
 14. Driller GREG SNELTEN License # 102-004256
 15. Name of Drilling Co. PETER SNELTEN & SONS INC.
 16. Permit No. H-5703 Date Issued 6-7-01
 17. Date Drilling Started 9-5-01
 18. Well SITE address 611 CAMDEN LN. BARRINGTON
 19. Township Name NUNDA Land ID # 15-32-251-003
 20. Subdivision Name RIVERWALK Lot # 184
 21. Location a. County MCHENRY
 b. Township 44N Range 9E Section 32
 c. NE Quarter SW Quarter NE Quarter
 d. Coordinates _____ Site Elevation 45. ft. (msl)



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	GLUED		0'	41'
5"	TH	SS	15	41'	44'
ASTM	D-2241				

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from GRAVEL at a depth of 44' ft. to 10' ft.
 a. Static water level 10' ft. below casing which is 12" in. above ground
 b. Pumping level is 15' ft. pumping 10+ gpm after pumping for 1 hours

24. Earth Materials Passed Through

Earth Materials	From (ft.)	To (ft.)
BROWN CLAY	0'	15'
SAND & GRAVEL	15'	30'
GRAVEL	30'	44'

(If dry hole, fill out log and indicate how hole was sealed.)

- Jeffrey A. Snelten License # 102-004256
 25. Licensed Well Contractor Signature License Number

TYPE OR PRESS FIRMLY WITH B!
WILL COMPLETION AND SEND TO THE

INK PEN. COMPLETE WITHIN 30 DAYS OF
PRIATE HEALTH DEPARTMENT.

#02-98

111-4-8591-02

Date 9-17-02 (60) N74

1. Type of Well a. Driven Well Casing diam. _____ in. Depth _____ ft.
 b. Bored Well Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. Drilled Well PVC casing Formation packer set at depth of 36 ft.
 Hole Diameter 9" in. to 40' ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
EPCONITE	3	9#	0'	36'	20'

- d. Drilled Well Steel Casing --- Mechanically Driven [] Yes [] No
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- e. Well finished within Unconsolidated Materials [] Bedrock

1. Kind of Gravel Sand Pack Grain Size/Supplier # From (ft.) To (ft.)

--	--	--	--	--

2. Well Use Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other

3. Date Well Completed 9-6-02 Well Disinfected Yes [] No
 Driller's estimated well yield 20 gpm

4. Date Permanent Pump Installed 9-16-02
 5. Pump Capacity 10 gpm Set at (depth) 20' ft.

6. Pitless Adapter Model and Manufacturer CAMPBELL BPIOX

7. Well Cap Type and Manufacturer VENTED & GASKETED

8. Pressure Tank Working Cycle 10 gals. Captive Air Yes [] No

9. Pump System Disinfected Yes [] No

10. Name of Pump Company PETER SNELTEN & SONS

11. Pump Installer JEFF SNELTEN License # 102-004256

12. Jeffrey A. Snelten License # _____
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson St.
 Springfield, IL 62761

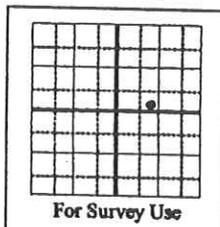
CO # 40442

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- GEOLOGICAL AND WATER SURVEY WELL RECORD
13. Property Owner LAKELAND HOMES/PETTY Well # 1
 14. Driller GREG SNELTEN License # 092-006972
 15. Name of Drilling Co. PETER SNELTEN & SONS INC.
 16. Permit No. H-8591 Date Issued 5-30-02
 17. Date Drilling Started 9-6-02
 18. Well SITE address 66 CAUDEN CT. BARRINGTON
 19. Township Name NUNDA Land ID # 15-32-252-005
 20. Subdivision Name RIUERWALK Lot # 194
 21. Location a. County MCHENRY
 b. Township 44N Range 9E Section 32.3e
 c. SE Quarter SW Quarter NE Quarter
 d. Coordinates _____ Site Elevation 46. ft. (msl)

PSK



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	GLUED		0'	37'
5"	S.S.	THRD	15	37'	40'
ASTM	D-2241		SDR-21		

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from GRAVEL at a depth of 40' ft. to 37' ft.
 a. Static water level 11' ft. below casing which is 12" in. above ground
 b. Pumping level is 15' ft. pumping 10+ gpm after pumping for 1 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
BROWN CLAY	0'	15'
SAND & GRAVEL	15'	30'
GRAVEL	30'	40'

- (If dry hole, fill out log and indicate how hole was sealed.)
Jeffrey A. Snelten License # 102-004256
 25. Licensed Water Well Contractor Signature License Number

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION)

TYPE OR PRESS FIRM
COMPLETE WITHIN 30 D.
AND SEND TO THE APPROP

TH BLACK INK PEN
WELL COMPLETION
HEALTH DEPARTMENT

Well construction report 99 15 75

#99-237 PERMIT 097-15-1073-99

Date 1-22-00 ⁽⁶¹⁾ N 746

1. Type of Well: a. Driven Well: Casing diam. _____ in. Depth _____ ft.
 b. Bored Well: Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. Drilled Well: PVC casing Formation packer set at depth of 35' ft.
 Hole Diameter 9" in. to 39' ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
BENTONITE	4	9#	0'	35'	20'

- d. Drilled Well: Steel Casing - Mechanically Driven [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- c. Well finished within: Unconsolidated Materials [] Bedrock

Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use: Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other

3. Date Well Completed: 1-16-00 Well Disinfected Yes [] No
 Driller's estimated well yield 30 gpm

4. Date Permanent Pump Installed 1-22-00
 5. Pump Capacity 10 gpm Set at (depth) 20' ft.

6. Pitless Adapter Model and Manufacturer: BAKER 1-BP

7. Well Cap Type and Manufacturer: VENTED & GASKETED

8. Pressure Tank: Working Cycle 10 gals. Captive Air: Yes [] No

9. Pump System Disinfected: Yes [] No

10. Name of Pump Company: PETER SNELTEN & SONS

11. Pump Installer: JEFF SNELTEN License # 102-004256

12. Jeffrey A. Snelten License # _____
 Licensed Pump Contractor Signature

Illinois Department of Public Health
 Division of Environmental Health
 125 W. Jefferson Street
 Springfield, IL 62761

10 # 42429
 DO Not write on these lines

IMPORTANT NOTICE: This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.
 L 482-0126 rev. 12/98

P321789

GEOLOGICAL & WATER SURVEY WELL RECORD

13. Property Owner: LAKELAND HOMES Well # 1

14. Driller: GREG SNELTEN License #: 092-00697215

- Name of Drilling Company: PETER SNELTEN & SONS INC. 16.
 Permit No. WN 99-15-1073 Date Issued 12-6-99

17. Date Drilling Started: 1-16-00

18. Well SITE address: 519 NORMANDY LN., BARRINGTON 19.
 Township Name: WAUCONDA Land ID # 09-33-300-0150

- Subdivision Name: "RIVERWALK" Lot # 104 21.
 Location: a. County: LAKE

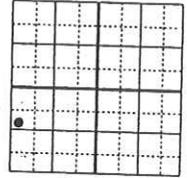
- b. Township: 44N Range: 9E Section: 33-8C

- c. SW Quarter NW Quarter SW Quarter

- d. coordinates: _____ Site Elevation 45.76 ft.(msl)

22. Casings, Liners*, & Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	GLUED		0'	36'
5"	S.S.	TH	15	36'	39'
ASTM	D-2241				



For Survey Use Only

- (*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from GRAVEL at a depth of 39' ft. to 8' ft.

- a. static water level 8' ft. below casing which is 12" in. above ground

- b. pumping level is 10' ft. pumping 104 gpm after pumping for 2 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
SAND & GRAVEL	0'	32'
GRAVEL	32'	39'

(If DRY HOLE, fill out log & indicate how hole was sealed)

Jeffrey A. Snelten
 Licensed Water Well Contractor Signature

102-004256
 License Number

TYPE OR PRESS FIRMLY WITH
WELL COMPLETION AND SEND TO

CK INK PEN. COMPLETE WITHIN 30 DAYS OF
APPROPRIATE HEALTH DEPARTMENT.

#01-234 111-H7135-01

Date 3-22-02 ⁽⁶⁰⁾ 2-143

GEOLOGICAL AND WATER SURVEY WELL RECORD

1. Type of Well a. Driven Well Casing diam. _____ in. Depth _____ ft.
 b. Bored Well Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. Drilled Well PVC casing Formation packer set at depth of 33' ft.
 Hole Diameter 9" in. to 37' ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
1. SONTONITE	3	9#	0'	33'	20'

- d. Drilled Well Steel Casing- - - Mechanically Driven [] Yes [] No
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- e. Well finished within Unconsolidated Materials [] Bedrock

Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

2. Well Use Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other

3. Date Well Completed 3-16-02 Well Disinfected Yes [] No
 Driller's estimated well yield 30 gpm

4. Date Permanent Pump Installed 3-22-02
 5. Pump Capacity 10 gpm Set at (depth) 20' ft.

6. Pitless Adapter Model and Manufacturer CAMPBELL BPI0X

7. Well Cap Type and Manufacturer VENTED & GASKETED

8. Pressure Tank Working Cycle 10 gals. Captive Air Yes [] No

9. Pump System Disinfected Yes [] No

10. Name of Pump Company PETER SNELTEN & SONS

11. Pump Installer JEFF SNELTEN License # 10Z-004256

12. Jeffrey A. Snelten License # _____
 Licensed Pump Contractor Signature

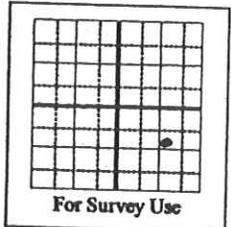
Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson St.
 Springfield, IL 62761

CO# 25675

DO NOT write on these lines

IMPORTANT NOTICE: This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.

13. Property Owner LAKELAND HOMES Well # 1
 14. Driller GREG SNELTEN License # 10Z-004256
 15. Name of Drilling Co. PETER SNELTEN & SONS INC.
 16. Permit No. H-7135 Date Issued 11-16-01
 17. Date Drilling Started 3-16-02
 18. Well SITE address 419 FARNSWORTH CIRCLE BARRINGTON
 19. Township Name NUNDA Land ID # 15-32-426-014
 20. Subdivision Name RIVERWALK Lot # 149
 21. Location a. County MCHENRY
 b. Township 44N Range 9E Section 32.2c
 c. SW Quarter NE Quarter SE Quarter
 d. Coordinates _____ Site Elevation 43 ft. (msl)



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	GLUED		0'	34'
5"	S.S.	THRD	15	34'	37'
ASTM	D-2241		SDR-21		

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from GRAVEL at a depth of 37' ft. to 34' ft.
 a. Static water level 10' ft. below casing which is 12" in. above ground
 b. Pumping level is 12' ft. pumping 10+ gpm after pumping for 1 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
BROWN CLAY	0'	15'
SAND & GRAVEL	15'	30'
GRAVEL	30'	37'

(If dry hole, fill out log and indicate how hole was sealed.)

- Jeffrey A. Snelten License # 10Z-004256
 25. Licensed Water Well Contractor Signature License Number

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION)

Illinois Department of Public Health
WATER WELL CONSTRUCTION REPORT

6 10

TYPE OR PRESS FIRM
WELL COMPLETION AND SIGNATURE

BLACK INK PEN. COMPLETE WITHIN 30 DAYS OF THE APPROPRIATE HEALTH DEPARTMENT.

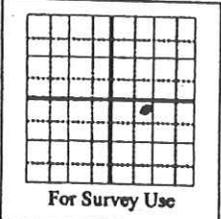
#03-103

111-0591-03 Date 9-18-03

GEOLOGICAL AND WATER SURVEY WELL RECORD

- 13. Property Owner LAKELAND HOMES Well # 1
- 14. Driller GREG SNETEN License # 092-006972
- 15. Name of Drilling Co. PETER SNETEN & SONS, INC.
- 16. Permit No. 03-0591 Date Issued 7-17-03
- 17. Date Drilling Started 8-27-03
- 18. Well SITE address 762 BRIGHTON CIRCLE BARRINGTON
- 19. Township Name NUNDA Land ID # 15-32-401-046
- 20. Subdivision Name RIVERWALK Lot # 229
- 21. Location a. County MCHENRY
 - b. Township 44N Range 9E Section 32
 - c. NE Quarter NW Quarter SE Quarter 3d
 - d. Coordinates _____ Site Elevation 43 ft. (msl)

Peter PBR
GSA



- 1. Type of Well a. Driven Well Casing diam. _____ in. Depth _____ ft.
- b. Bored Well Buried Slab Yes No
Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
- c. Drilled Well PVC casing Formation packer set at depth of 35' ft.
Hole Diameter 9" in. to 39' ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
BENTONITE	3	9#	0'	35'	20

- d. Drilled Well Steel Casing - - - Mechanically Driven Yes No
Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- e. Well finished within Unconsolidated Materials Bedrock

f. Kind of Gravel Sand Pack	Grain Size/Supplier #	From (ft.)	To (ft.)

- 2. Well Use Domestic Irrigation Commercial Livestock Monitoring Other

3. Date Well Completed 8-27-03 Well Disinfected Yes No
Driller's estimated well yield 30 gpm

4. Date Permanent Pump Installed 9-18-03

5. Pump Capacity 10 gpm Set at (depth) 20 ft.

6. Pitless Adapter Model and Manufacturer CAMPBELL BPIOX

7. Well Cap Type and Manufacturer VENTED & GASKETED

8. Pressure Tank Working Cycle 10 gals. Captive Air Yes No

9. Pump System Disinfected Yes No

10. Name of Pump Company PETER SNETEN & SONS

11. Pump Installer JEFF SNETEN License # 102-004256

12. Jeffrey A. Sneten License # _____
Licensed Pump Contractor Signature

Illinois Department of Public Health
Division of Environmental Health
525 W. Jefferson St.
Springfield, IL 62761

co # 41113

255038

DO NOT write on these lines

22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	GLUED		0'	36'
5"	SS	THRD	10	36'	39'
	ASTM D-224		SDR-21		

(*) _____
(List reason for liner, type of upper and lower seals installed)

- 23. Water from GRAVEL at a depth of 39' ft. to 36' ft.
 - a. Static water level 10' ft. below casing which is 12" in. above ground
 - b. Pumping level is 12' ft. pumping 10+ gpm after pumping for 1 hours

24. Earth Materials Passed Through

	From (ft.)	To (ft.)
BROWN CLAY	0'	10'
SAND & GRAVEL	10'	30'
GRAVEL	30'	39'

(If dry hole, fill out log and indicate how hole was sealed.)

Jeffrey A. Sneten License Number 102-004256
25. Licensed Water Well Contractor Signature License Number

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

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TYPE OR PI
 WILL COMPL

ONLY WITH BLACK INK PEN. COMPLETE WITHIN 30 DAYS OF
 SEND TO THE APPROPRIATE HEALTH DEPARTMENT.

#02-49 111-H7912-02

Date 5-6-02 (67) 274

GEOLOGICAL AND WATER SURVEY WELL RECORD

1. Type of Well a. Driven Well Casing diam. _____ in. Depth _____ ft.
 b. Bored Well Buried Slab [] Yes [] No
 Hole Diameter _____ in. to _____ ft.; _____ in. to _____ ft.; _____ in. to _____ ft.
 c. Drilled Well PVC casing Formation packer set at depth of 40' ft.
 Hole Diameter 9" in. to 44' ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)
MENTONITE	4	9#	0'	40'	20'

- d. Drilled Well Steel Casing --- Mechanically Driven [] Yes [] No
 Hole Diameter _____ in. to _____ ft. _____ in. to _____ ft. _____ in. to _____ ft.

Type of Grout	# of Bags	Grout Weight	From (ft.)	To (ft.)	Tremie Depth (ft.)

- e. Well finished within Unconsolidated Materials [] Bedrock
 f. Kind of Gravel Sand Pack Grain Size/Supplier # From (ft.) To (ft.)
- | Grain Size/Supplier # | From (ft.) | To (ft.) |
|-----------------------|------------|----------|
| | | |
| | | |

2. Well Use Domestic [] Irrigation [] Commercial [] Livestock
 [] Monitoring [] Other
 3. Date Well Completed 5-1-02 Well Disinfected Yes [] No
 Driller's estimated well yield 20 gpm
 4. Date Permanent Pump Installed 5-6-02
 5. Pump Capacity 10+ gpm Set at (depth) 20' ft.
 6. Pitless Adapter Model and Manufacturer CAMPBELL BPI/DX
 7. Well Cap Type and Manufacturer VENTED & GASKETED
 8. Pressure Tank Working Cycle 10 gals. Captive Air Yes [] No
 9. Pump System Disinfected Yes [] No
 10. Name of Pump Company PETER SNELTEN & SONS
 11. Pump Installer JEFF SNELTEN License # 102-004256
 12. Jeffrey A. Snelten License #
 Licensed Pump Contractor Signature

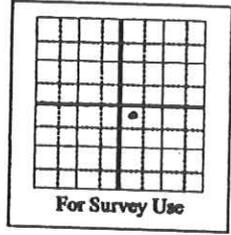
Illinois Department of Public Health
 Division of Environmental Health
 525 W. Jefferson St.
 Springfield, IL 62761

CO# 26506

DO NOT write on these lines

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 accomplish the statutory purpose as outlined under Public Act 85-0863. DISCLOSURE OF THIS
 INFORMATION IS MANDATORY. This form has been approved by the Forms Management Center.

13. Property Owner LAKELAND HOMES Well # 1
 14. Driller GREG SNELTEN License # 102-004256
 15. Name of Drilling Co. PETER SNELTEN & SONS INC.
 16. Permit No. H-7912 Date Issued 3-25-02
 17. Date Drilling Started 5-1-02
 18. Well SITE address 730 BRIGHTON CIRCLE BARRINGTON
 19. Township Name NUNDA Land ID # 15-32-401-005
 20. Subdivision Name RIVERWALK Lot # 213
 21. Location a. County MCHENRY
 44N b. Township 44N Range 9E Section 32 40
 c. NW Quarter NW Quarter SE Quarter
 d. Coordinates _____ Site Elevation 45.8 ft. (msl)



22. Casings, Liners* and Screen Information

Diam. (in.)	Material	Joint	Slot Size	From (ft.)	To (ft.)
5"	PVC	GLUED		0'	41'
5"	SS	THRD	15	41'	44'
ASMA	D-224		SR-21		

(*) _____
 (List reason for liner, type of upper and lower seals installed)

23. Water from GRAVEL at a depth of 44' ft. to 41' ft.
 a. Static water level 10' ft. below casing which is 12" in. above ground
 b. Pumping level is 12' ft. pumping 10+ gpm after pumping for 1 hours

24. Earth Materials Passed Through

Material	From (ft.)	To (ft.)
BROWN CLAY	0'	15'
SAND & GRAVEL	15'	30'
GRAVEL	30'	44'

- (If dry hole, fill out log and indicate how hole was sealed.)
 Jeffrey A. Snelten License # 102-004256
 25. Licensed Water Well Contractor Signature License Number

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION)