

MEMORANDUM

To: Elaine Ramesh, Plan Commission Chair
Robert Kosin, Village Administrator

From: Daniel J. Strahan, P.E., CFM
Gewalt Hamilton Associates

Date: June 20, 2012

Re: Plan Commission Meeting- June 11, 2012
Comprehensive Plan Amendment- Groundwater Recharge Areas

On Monday, June 11, 2012 the Plan Commission conducted a public hearing to give consideration for inclusion of a groundwater recharge illustration in the Village of Barrington Hills Comprehensive Plan. The illustration had been prepared in cooperation with BACOG to demonstrate the variability in sensitivity of various areas within and adjacent to the Village of Barrington Hills with regard to groundwater recharge. Inclusion of this information in the Comprehensive Plan will enable consideration of this information as part of future planning efforts.

After consideration and at the conclusion of the public hearing, the Plan Commission passed a motion to recommend to the Village Board that the Comprehensive Plan be amended to include these illustrations.

cc: Board of Trustees

**AN ORDINANCE ADOPTING AN AMENDMENT
TO THE OFFICIAL COMPREHENSIVE PLAN**

WHEREAS, Section 11-12-6 of the Illinois Municipal Code, 65 ILCS 5 *et seq.*, authorizes municipalities in the State of Illinois to prepare and adopt an official comprehensive plan; and

WHEREAS, the President and Board of Trustees of the Village of Barrington Hills (“Village”) first adopted an official comprehensive plan in 1957, which comprehensive plan was amended in 1978, revised in 1995 and amended in 2005 (together the 1957 plan, 1978 amendment, 1995 revision and 2005 amendment are hereinafter referred to as the “Official Comprehensive Plan”); and

WHEREAS, the President and Board of Trustees of the Village requested the Barrington Hills Plan Commission to review and update the Official Comprehensive Plan and to prepare an amendment to the Official Comprehensive Plan; and

WHEREAS, the Barrington Hills Plan Commission (“Plan Commission”) prepared and submitted a proposed amendment to the Official Comprehensive Plan to the President and Board of Trustees of the Village;

WHEREAS, on May 21, 2012, the President and Board of Trustees of the Village granted the Plan Commission the authority to hold a public hearing on June 11, 2012 at 7:30 p.m. regarding the proposed amendment to the Official Comprehensive Plan and to report to the President and Board of Trustees of the Village such pertinent information as shall have been derived from said hearing, together with its recommendation to the President and Board of Trustees of the Village;

WHEREAS, after giving public notice required by law, the Plan Commission held a public hearing on June 11, 2012 on the proposed amendment to the Official Comprehensive Plan; and

WHEREAS, at a special meeting on June 11, 2012, the Plan Commission considered information derived from the public hearing and, after making certain revisions to the proposed amendment to the Official Comprehensive Plan, recommended that the President and Board of Trustees of the Village approve the proposed amendment to the Official Comprehensive (hereinafter referred to as the amendment of the “2008 Official Comprehensive Plan of the Village of Barrington Hills”);

WHEREAS, the President and Board of Trustees of the Village of Barrington Hills have considered the amendment of the Official Comprehensive Plan of the Village of Barrington Hills, deem it to be in the best interests of the Village of Barrington Hills and its residents and desire to adopt the same.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Barrington Hills, Cook, Kane, Lake and McHenry Counties, Illinois, as follows:

SECTION 1: The Official Comprehensive Plan of the Village of Barrington Hills, including the maps incorporated therein, a copy of which Plan is attached hereto and incorporated herein as Exhibit A, be and the same is hereby adopted as the amendment to the Official Comprehensive Plan of the Village of Barrington Hills.

SECTION 2: The Village Clerk is hereby directed to file a notice of the adoption of the amendment of the 2008 Official Comprehensive Plan of the Village of Barrington Hills with the County Recorder of Deeds of the Counties of Cook, Lake, Kane and McHenry.

SECTION 3: All ordinances or parts of ordinances of the Village of Barrington Hills in conflict herewith are, to the extent of such conflict only, hereby repealed.

SECTION 4: This ordinance shall be in full force and effect from and after its passage, approval and publication in the manner provided by law.

PASSED this ____ day of _____, 2012.

AYES: _____, NAYS: _____, ABSENT: _____, ABSTAIN: _____

APPROVED this ____ day of _____, 2012.

Village President

ATTEST:

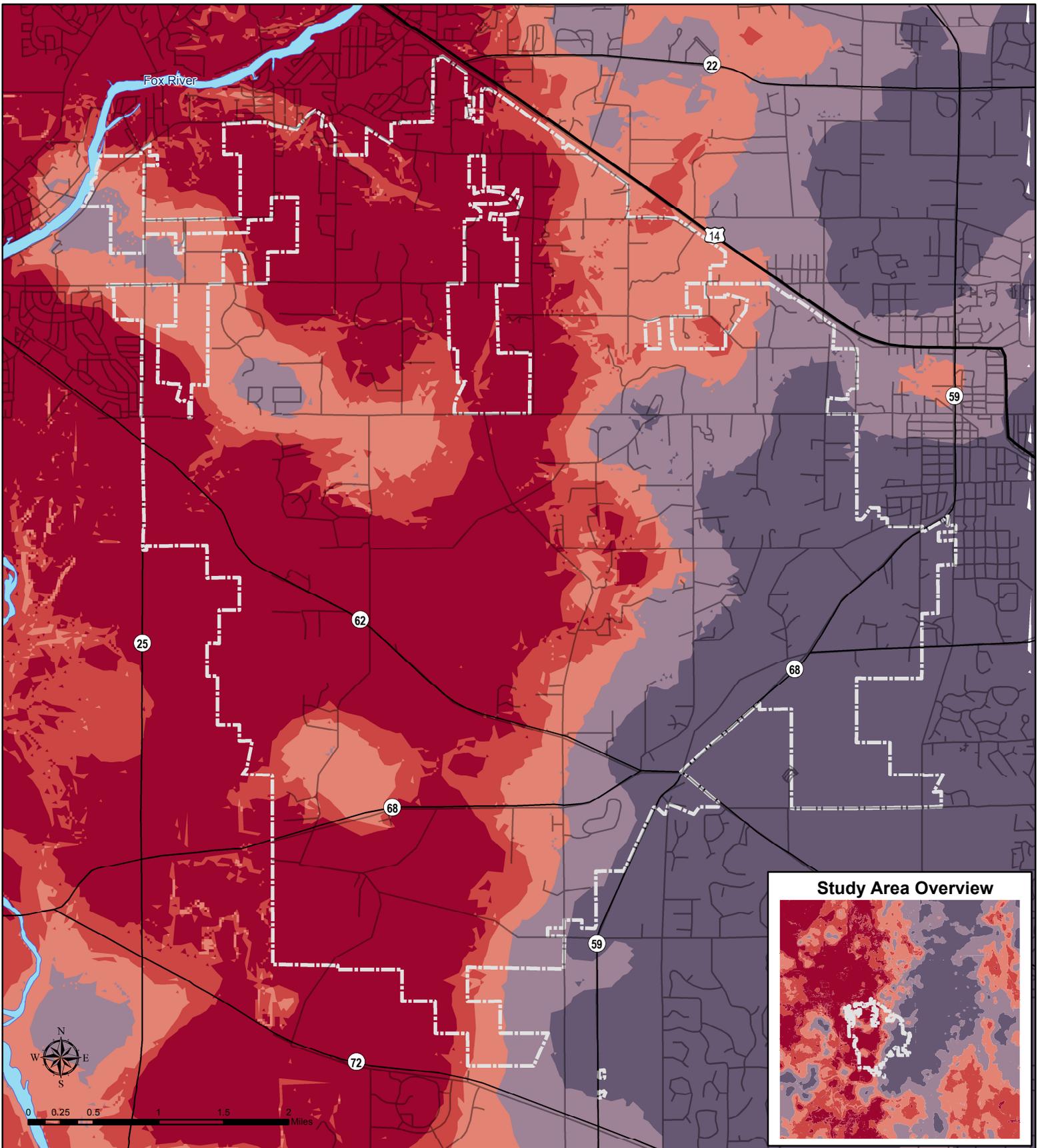
Village Clerk

Exhibit A

Recharge Areas

Comprehensive Plan

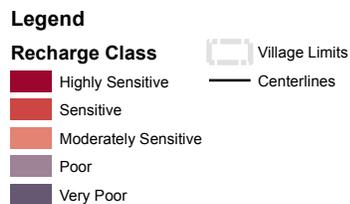
Village of Barrington Hills



Recharge Areas

Comprehensive Plan

Village of Barrington Hills



Produced by: Barrington Area Council of Governments
 Publish Date: June 2012
 Data Sources: Barrington Area Geographic Information System, Lake, Cook, Kane, and McHenry Counties. Illinois State Geological Survey - well data, Illinois Department of Natural Resources,



Groundwater Recharge Areas



Recharge characteristics were mapped in the BACOG area as a result of the research undertaken as part of the water resource initiative. A system of relative travel times was established by BACOG based on soil characteristics using well log data acquired from the Illinois State Water Survey. These travel times were used to classify area recharge characteristics as being highly sensitive, sensitive, moderately sensitive, poor, or very poor.

Recharge Designation	Description
 Highly Sensitive	In the highly sensitive areas relative travel times are measured in days. Recharge sensitivity is estimated to be greater than 80 percent, indicating that recharge is very fast and that the risk for groundwater contamination from a pollutant surface spill is high. The percent of annual precipitation that reaches the groundwater in the highly sensitive recharge areas is estimated to be about 48 percent.
 Sensitive	The relative time of travel in the sensitive recharge areas ranges from days to one or two years, and the recharge sensitivity ranges from approximately 60 to 79 percent. The estimated portion of annual precipitation that reaches the groundwater is about 30 percent.
 Moderately Sensitive	The areas having moderately sensitive recharge characteristics exhibit an estimated relative travel time of one or two years to about 40 years. The recharge sensitivity is estimated to be in the range of 40 to 59 percent, and the portion of annual precipitation reaching groundwater is estimated at 10 percent.
 Poor	Poor to very poor recharge areas exhibit relative travel times that range from 42 years to hundreds of years or more. The recharge sensitivity is estimated to be less than 40 percent and the portion of annual precipitation reaching groundwater is estimated at 6 percent.
 Very Poor	

Recharge Characteristics provided by Kurt O. Thomsen, Ph.D., P.G.

Map:

Disclaimer of Liability: This data is provided "AS-IS" BACOG without warranty of any kind, expressed or implied. BACOG and its member governments make no warranties, guarantees, or representations as to the suitability of this information for user's purposes or that the operation of the files/maps will be without defect.