

**MINUTES OF A MEETING OF THE ENVIRONMENTAL AND HEALTH COMMISSION OF
THE VILLAGE OF NORTH BARRINGTON, WHICH WAS HELD
TUESDAY, JANUARY 5, 2010 AT
THE NORTH BARRINGTON VILLAGE HALL
111 OLD BARRINGTON ROAD IN SAID VILLAGE**

1. Call to Order and Roll Call

At 7:30 P.M. Chairman Bruce Kramper called the meeting to order and the Deputy Village Clerk called the roll:

Present in Person: Chairman Bruce Kramper, Jackie Andrew, Susan Allman, Barbara Cragan, Patty Kalinowski
Absent: None
Also Present: Gregg Zink, Integrated Lakes Management
Sandy Kubillus, Integrated Lakes Management
Nicole Keiter, Deputy Village Clerk

**2. Approval of Past Minutes: Environmental and Health Commission Meeting
November 3, 2009**

The Minutes of the November 3, 2009 Environmental and Health Commission Meeting were made available to the Commission.

Motion: Jackie Andrew moved that the Minutes of the November 3, 2009 Environmental and Health Commission Meeting be approved; seconded by Patty Kalinowski.

Discussion: There was no discussion.

Vote on Motion:

The voice vote was unanimous in favor.

Chairman Bruce Kramper declared the Minutes of the November 3, 2009 Environmental and Health Commission Meeting approved and put on file.

3. Keith Gray – Water Quality Analysis Presentation

Due to the fact that Keith Gray was not able to attend the meeting, Sandy Kubillus and Gregg Zink, both of Integrated Lakes Management (ILM), gave the presentation on water quality analysis. Previous testing that the Village had done was shown to be of little use due to the fact that immeasurable indicators had been used. Ms. Kubillus explained to the Commission that there were many different ways to test for water quality and that it would be in the Village's best interest to follow the recommendations of the Flint Creek Watershed Plan. The methods suggested under this Plan are Trophic State Index (TSI), Qualitative Habitat Evaluation Index (QHEI), Macroinvertebrate Biotic Index (MBI), and Index of Biotic Integrity (IBI).

The trophic state index is applicable to lakes and ponds and measures how eutrophic the water body is with regard to annual average data. It also measure chlorophyll a (measure planktonic algae), total phosphorus, and water clarity.

Qualitative habitat evaluation index is a measure of the physical characteristics of a samples stream that affect fish and organisms. Areas measured include substrate (boulder, cobble, sand, gravel, silt, muck, etc.), in-stream cover (undercut banks, overhanging vegetation, root mats, etc.), channel morphology (sinuosity, development), riparian zone and bank erosion (riparian width, flood plain quality), pool, riffle and run quality (max depth, run length, etc.), as well as gradient and stream size. After a baseline survey this is repeated every 2 – 4 years.

Macroinvertebrate biotic index measures the quantity and quality of resident macroinvertebrate organisms. This includes pollution sensitive organisms, pollution intermediate organisms, and pollution tolerant organisms. This testing requires specialists or trained volunteers and after a baseline sampling is repeated every 1 - 3 years.

The index of biotic integrity assesses biological health using fish surveys. A qualified firm or IDNR biologist uses electroshocking equipment and collects and identifies fish against 12 metrics to rate the results.

Water quality monitoring (TSI) represents a snap shot unless performed multiple times in a year and the annual average is calculated. Habitat evaluation (QHEI) considers the physical (slowly changing) characteristics of a stream. Organism evaluation by using macroinvertebrates (MBI) or fish (IBI) utilizes nature to tell about the quality of the stream. The cost of these tests would depend upon the number of monitoring points, the frequency of monitoring, and the use (or non-use) of volunteers to do the monitoring. The purpose of the testing would be to have a standard so that year by year the results could be compared. ILM is a full service firm and has the ability to handle all of the testing described and would also have the ability to train volunteers from the area so that they could do monitoring and reduce the overall costs. At the conclusion of the presentation Commission members asked questions.

Chairman Kramper inquired about the labs used to test the data and gather results. Ms. Kubillus explained that each lab could potentially generate slightly different results, depending on their equipment and the detection limits used. Chairman Kramper asked if the results the Village obtained from the last set of testing would be meaningless. Ms. Kubillus stated that the only reason they would be considered meaningless would be in the situation that the detection limits used by the laboratory were not sufficient. Chairman Kramper then asked if new testing were to be done, would it be like the Village was starting over since some of the previous data would not be usable. Ms. Kubillus assured the Commission that some data obtained previously could be used; however, data from certain tests would be like starting new.

Ms. Andrew asked if the Flint Creek Watershed Plan had already done any of these tests and if they were close enough to our Village to use some of their base lines for comparison. Mr. Zink stated that the Health Department has data for Honey Lake, Grassy Lake, and Dog Bone Lake; but nothing that would give a good basis for the area as a whole. Mr. Zink assured the Commission that there were plenty of areas to conduct the testing and they would need to locate any areas of concern and those with easy access to the water source.

Ms. Kalinowski asked if there would be a tailored program for our stream(s) and what parameters would be used. Ms. Kubillus recommended using the studies that the Flint Creek Watershed Plan uses

which would include both water quality and macroinvertebrate studies. Ms. Kubillus also stated that more information would be needed before setting specific parameters such as what the Village would be interested in testing, their budget, etc. Ms. Kalinowski then asked what kind of commitment would be needed from the Village. Ms. Kubillus stated, depending on what the Village was looking to test, that the macroinvertebrate testing would need to be conducted once a year, usually in May or June, and the water quality testing would require a couple baseline results and then another group of testing after 1 inch or more of rainfall.

Chairman Kramper inquired as to how the continuous samplers that ILM uses in collecting data are programmed. Ms. Kubillus stated that the programmer looks at the weather reports and sets the machine to collect samples around the same time that a storm is predicted to take place. Ms. Kalinowski then asked if the continuous sampler could be attached to a flow sampler as well. Ms. Kalinowski stated that they could.

Chairman Kramper asked if the last methods listed in the presentation (QHEI, MBI, and IBI) showed change. Mr. Zink stated that they show long term effects. These tests would show where you are as well as what you could work toward.

Ms. Kalinowski asked what other areas ILM had worked with in close proximity to the Village. Mr. Zink stated that ILM had done most of their work with lakes or ponds, but not too many close to North Barrington. He also stated that most areas haven't studied streams or creeks and that North Barrington would be in the forefront with this kind of testing. Mr. Zink stated that in the future the Illinois Environmental Protection Agency (EPA) would be requiring more of this type of testing; but as of this time it is not required. Ms. Kalinowski then asked if doing this kind of testing would be helpful in receiving 319 Grant money. Ms. Kubillus stated that it would probably depend on what the Village would do with the grant money, but it would probably help.

Chairman Kramper thanked ILM for coming to the meeting and sharing their presentation. He said that the Environmental and Health Commission needed to decide what they thought should be tested as well as discuss with the Village Board about their thoughts on the matter. Chairman Kramper also wanted to gather some background on the testing done previously; specifically where the test sites were located and why they were chosen.

4. Letter From Tom Coppenhaver to Natalie Karney – Review Letter/Provide Input

Chairman Kramper gave the Commission a summary of the letter. He stated that the letter was written to provide a brief overview of the required maintenance already placed on certain septic systems in the Lake County area. He also stated that Tom Coppenhaver, RS, CPSS, Individual Sewage Disposal System Coordinator, reviewed the proposed periodic maintenance ordinance under consideration by the Village and had positive feedback. There were a few concerns addressed by Mr. Coppenhaver in his letter.

One concern posed by Mr. Coppenhaver regarded the use of a software program to track the information provided by residents to the Village. He stated that such an ordinance would require having an automated/web-based data tracking system and that their current tracking system is not capable of handling larger numbers of systems. Ms. Kalinowski stated that the Commission had already obtained a copy of the US EPA software that was available. The program is called TWIST and is "The Wastewater Information System Tool." The Commission stated that this program would fulfill the Village's needs in maintaining data collected.

The other concern Mr. Copenhaver had was in regard to specific language used within the proposed ordinance. The Commission stated that they were waiting for the document to be reviewed by legal and returned with corrections pertaining to verbiage.

There was some discussion from the Commission regarding the status of the proposed ordinance. Chairman Kramper stated that he would contact President Sauer to verify that the draft had gone to legal and is being reviewed. There was also some discussion from the Commission as to whether they should send a copy of Mr. Copenhaver's letter to legal so that they could pinpoint the concerns listed.

5. Old/New Business

There was no old business.

The Commission discussed some initial thoughts regarding the presentation given earlier in the meeting by ILM. It was decided that the same lab would need to be used from testing period to testing period to assure the results would be consistent and could be used for accurate comparison. The Commission also stated that the Village of North Barrington is a partner in the Flint Creek Watershed and wants to do whatever possible to aide in the goals of the partnership. The Flint Creek Watershed Plan would be something that the Village could consider emulating with a couple minor changes. Checking to see if the salt levels had changed from the previous testing period, in addition to nitrogen levels, phosphorus levels, and the health of life forms in the water were some of the general areas the Commission felt would be important to test. Baseline studies in general would be imperative in determining if the work that the Village is doing would help the stream long term. Chairman Kramper stated that he would discuss general thoughts with President Sauer regarding this type of testing and would also contact Ms. Kubillus to discuss the possibilities of long term plans for the Village.

The Commission received a copy of ILM's service report from day one of the Eton Park project along with photos of the work at the beginning of the meeting. After quickly looking over the report and photos the Commission stated that the work looks good and that they felt this work was more impressive than that done by Tallgrass. The Commission agreed that reviewing the report and photos in more detail was necessary and that the progress would be discussed at the next scheduled Commission meeting.

6. Adjournment

Motion: Barbara Cragan moved the Meeting be adjourned; seconded by Jackie Andrew.

Discussion: There was no discussion.

Vote on Motion:

The voice vote was unanimous in favor.

At 8:54 p.m. Chairman Bruce Kramper declared the meeting adjourned.

These Minutes were approved at the Environmental and Health Commission Meeting held February 2, 2010.

ATTEST:

_____, Nicole Keiter, Deputy Village Clerk

