MINUTES OF ELUC SUBCOMMITTEE MEETING

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Champaign County Environment & Land Use Committee Champaign County Brookens Administrative Center Urbana, IL 61802			DATE: TIME: PLACE:	Wednesday, June 29, 2005 9:00 a.m. Brookens Administrative Center County Board Room 1	
Members Present: Ralph Langer		Ralph Langenheim	heim (Chairperson), Nancy Greenwalt (Vice-Chairperson), Steve Moser		
Others Present:		Patty Busboom, Chris Doenitz, Bruce Stikkers, Kenneth M. Kessler, Bob McLeese, Norman Stenzel			
Staff Present:		Susan Monte, Mary Cummings			
1.	Call to Order	r, Roll Call			
	Chairperson L declared prese	0	meeting to order a	t 9:05 a.m. The roll was called and a quorum	
2.	Approval of A	Agenda			
	Mr. Moser m carried by voi	•	As. Greenwalt, to	approve the agenda as submitted. The motic	
3.	Approval of]	Minutes			
	There were no	o minutes available.			
4.	Public Partic	ipation			
	Service, who		and address the Su	ist for the Natural Resources Conservation bcommittee regarding the accuracy of digital	
	survey. He ex	plained that the NRC	S is the agency res	assue of accuracy of the Champaign County soil ponsible for the soil survey program in Illinois. Champaign County that was published in 1918	
	He said that so said that a ma Champaign C	oil map was scaled at p's scale is what really ounty soil survey pub	¹ / ₂ inch to the mile- y dictates the accur lished in 1918 feature	—a scale that does not allow for much detail. F racy and detail that can be shown. He said the ured a total of 14 map units with 14 different ago, but wouldn't meet our needs today. He	
	indicated that started a prog	beginning in the 1950 ram in Illinois to comp	of the NRCS work of the other solution of the other of the other solution of the other s	ked with the Illinois Ag Experiment Station and survey for the State of Illinois. He said that th ng the time frame of 1950 to 1995, a period of 4	
				is republished in 1982, and that this publication	

the one that is presently most widely distributed. He indicated that the scale of the 1982 soil survey maps is 4 inches to the mile, and not $\frac{1}{2}$ inch per mile. He said that 69 map units are featured in the 1982 version and much more detail and accuracy, as compared to the 1918 report.

Mr. McLeese said that the complete inventory of the State's soil resources was completed in 1995, but prior to completion the NRCS started to look at 'where do we need to go with the soil survey program – what is the next generation?' He said that the next generation was identified as the digital soil survey with GIS technology, and that based on the uses that people were putting the soil survey to, an updated and digitized soil survey was needed. He said that Champaign County is one of the 43 counties now that has an updated and digitized soil survey. He said the 2003 update of the soil survey is different: the maps have been rectified to the 2003 digital orthophotos available from the USGS and the map scale is now 5.25 inches per mile (an improvement from the 1982 scale of 4 inches to the mile) which allows for more detail. He said the Champaign County Soil Survey now features 74 map units. He indicated that the updated soil survey is available both in digital form and as a hard copy. He said that a CD called 'Soil View' is available from the NRCS for anyone who has a computer and desires access to updated soil survey information.

Mr. McLeese addressed the question of how accurate the updated Champaign County Soil Survey is. He said the updated information is not 100% accurate in every location. He said that at the map scale of 5.25 inches per mile, the detail that can be delineated is about 1-1/2 acres in size. He said that the map scale dictates cartographically the minimum delineation that can be shown. He used, as an example, an 80 acre field, on which the Soil Survey units shown are Drummer, Flannigan, Blackberry, and perhaps Brenton. He said there could be a small one-acre pot hole of Peotone in a Drummer unit. He indicated that because it's just one acre in size, it will not show up on the Soil Survey because the scale dictates the detail that can be shown. He said these are referred to as 'inclusions'. He said that the Soil Survey narrative indicates that the Drummer map unit in Champaign County are typically 90% Drummer and similar type soils, with a 10% 'inclusion' rate. He said that with Drummer, those inclusions are typically the Flannigan soils, the Peotone soils, and the Brenton soils and they occur in the pothole or on a little ridge. He said that 'inclusions' are inherent in the mapped soil survey units.

Mr. Moser said that the Supervisor of Assessments, Curt Deedrich, is involved in updating maps used for assessments with the updated soil survey information available from the County GIS Consortium for four townships in the northeastern corner of the County. He said there has been much confusion regarding the Bulletin 810 changes and how assessments are affected. He noted that several changes are expected to the Assessor's maps for these four townships based on the updated digital soil survey information that is now available.

Ms. Monte indicated that the Assessor's office will be or is in the process of switching from the mylar hard copy maps which are based on the 1982 Champaign County soil survey and that is based on soils data collected during the 1970's, to the updated 2003 digitized Champaign County Soil Survey data.

Ms. Busboom asked why the County should waste its money with the services from Mr. McLeese's agency.

45 Mr. McLeese pointed out that the offering of his agency is just one GIS data layer and that the County 46 and/or City governments need a lot of different data layers in GIS. He said that the 2003 digital soil 47 survey was delivered to the County for use by the County GIS Consortium. He noted that the digital 48 soils GIS layer is just one data layer that the Supervisor of Assessments, for instance, would need; and 49 that he would also need land use data along with other data layers, such as roads and streams, in order 50 to be more accurate with rural farmland assessments. He stated that the digital data provided is the 51 soils data that is a certified database that goes through a strict certification process by the NRCS.

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$\frac{1}{2}$	Mr. Mal and surplained the magning of Dullatin 910, noting that in his animian Dullatin 910 is not
2	Mr. McLeese explained the meaning of Bulletin 810, noting that in his opinion Bulletin 810 is not
3	receiving favorable press around the state. He explained that Bulletin 810 is a publication by the
4	University of Illinois of the soil productivity indices of the soils of Illinois. He stated that the
5	Department of Revenue has passed down a mandate to the Supervisor of Assessments to update those
6	soil productivity indices instead of the information contained in a previous Circular 1156 that all
7	counties were using, which is 30 to 40 years old. He further explained that the data contained in
8	Bulletin 810 is soils data that the professors at the U of I collected throughout the State over a ten-year
9	period, did computer modeling, and have updated soils productivity information. He stated that the
10	mandate from the Department of Revenue is that all counties are to incorporate modern soil survey
11	information into their rural farmland assessment process.
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13	Concerning a question on slopes information, Mr. McLeese explained that soil maps show the different
14	soil types, or map units, that are based on soil series, or individual soil slope, whether it is a 0 to 2%
15	slope, 2 to 5%, 5 to 10%. He stated that those are shown on the soil maps and you take where the soil
16 17	is distributed across the landscape with the map. As an example, noting that Bulletin 810 may indicate
17 18	the productivity index for Drummer is 128, he explained that the Supervisor of Assessments has to
18	merge the productivity information where the Drummer is located on the landscape. He further explained that instead of just saying the predominant soil on an 80-acre parcel is Drummer, which
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20 21	would have been taxed as such, with the GIS technology, this same parcel would include, for example, 20 acres of Drummer, 30 of Flannigan, 5 of Brenton, and a weighted average with the productivity
21 22	would be done with the outcome being a truer picture of what is the productivity of that 80 acres,
22	which would be more equitable.
23	which would be more equitable.
24	Mr. Langenheim asked how truthful the digitized map information is as compared to actual soil types.
26	He inquired about the process by which information was updated.
20	The inquired about the process by which information was updated.
28	Mr. McLeese responded that borings were completed in the course of producing the soil survey
29	published in 1982. He stated that for the 1982 report, there was a crew in Champaign County over the
30	course of 4 to 5 years and they walked 4 to 5 miles each day doing boring samples. He said that the
31	2003 update of the soil survey involved rectifying the survey to current aerial photography, and a
32	subsequent analysis and update of the survey was based on the additional details and visual tones
33	available from the aerial photography.
34	available nom the actual photography.
35	Mr. Langenheim asked how much gradation was observed in the rises and how were rises determined.
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37	Mr. McLeese said that in the United States, there are 20,000 soil series recognized and 650 of those are
38	in the State of Illinois. He said that each of those soil series has an established description with an
39	established range of characteristics that soil scientists have to know. He stated that gradation will
40	determine where soil differences begin, where some are gradual gradation, and that the National Map
41	Accuracy Standards are utilized, which are plus or minus 10 meters.
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43	Mr. Langenheim asked if soil differences could be disputed from the map information and Mr.
44	McLeese responded that NRCS soil scientists investigate soil questions upon request.
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46	Ms. Greenwalt said that we are proposing to protect the best prime farmland from any subdivision
47	development and asked if someone wanted to dispute the classification of soils on their property,
48	would there be an appeals process.
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50	Mr. McLeese said that this question has come up in other counties and that the NRCS response is that
51	we stand behind our maps unless someone can show us they are wrong. He said that it is typical that

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1 every time a new soil survey is published and the supervisor of assessments starts using them, a flood 2 of questions and appeals to the NRCS are plentiful. He said that unwritten NRCS policy is that the 3 landowner appeals to a Board of Review and indicates they don't agree with the soil types, the NRCS 4 is not going to visit the site and look at the soil. If a landowner wants to hire a consultant and have 5 that consultant go out and look at it and provide a report to the NRCS, and if the consultant looks at it 6 with the same scale as the NRCS does, and their report shows different data, then the NRCS will 7 review the soils on a particular property. 8 9 Ms. Monte requested a summarization of the 1982 and 2003 hard copy differences and improvements. 10 11 Mr. McLeese explained that the digital orthophotos for 2003 and the base map that was used is 12 rectified aerial photography. He said the 2003 digital soils data are based on USGS orthophotos that 13 could be matched up with other GIS information layers. He said the 2003 update features a different 14 soil legend based on improved knowledge of soil types. He stated that the line work didn't change 15 drastically and that it showed the spatial distribution nearly the same as the previous information. He 16 said the major difference is that it is now compiled on a different base. He pointed out that soils are 17 stable to at least 1,000 years and the soil survey information is likely to be accurate for many years. He 18 said that with erosion factors, the soil type would remain the same but soil productivity is likely to 19 decrease. 20 21 Mr. Langenheim noted that the soil survey map may best be used as a guide to judgment and not a 22 determination of the judgment. 23 24 Mr. McLeese said the 2003 Soil Survey would be a very good tool for land use assessment. 25 26 Ms. Monte thanked Mr. McLeese for his presentation. 27 28 5. Revisions to Selected Champaign County Land Use Regulatory Policies – Rural Districts based on 29 results of ad hoc Working Group Discussions Held on April 20, 2005 and May 04, 2005 30 31 Ms. Monte said the policies are designed to be considered as a whole and coordinated as such and that 32 providing an exception clause for each policy is not advised. 33 34 Regarding Policy 1.1, Highest and Best Use of Farmland, Ms. Monte said that this policy addresses the 35 question 'when demands for farmland conflict, what use should take precedence?' 36 She said in Policy 1.1.1, a proposed change is to indicate the County is not obliged to allow further 37 development to occur unless it occurs on land that is not best prime farmland. She said that other land 38 uses can be accommodated only in areas of less productive soils and only under very unique 39 conditions. 40 41 Mr. Langenheim suggested changing the language to include "only in areas of less productive soils or 42 only under very unique conditions". 43 44 Regarding Policy 1.2, Preserving Unique Soil Resources, Ms. Monte said the policy addresses the 45 question 'should farmland preservation focus only on the most productive soils, or apply to all prime 46 farmland?' She noted that a distinction is proposed between prime farmland and best prime farmland. 47 She said that 'prime farmland' comprises approximately 94.6% of the County and includes soils in Ag 48 Value Groups 1 through 6. She said that 'best prime farmland' is less inclusive and comprises 49 approximately 80% of the County and includes soils in Ag Value Groups 1 through 4 only. She said 50 the proposed policy states that 'best prime farmland' will be preserved for agricultural use. 51

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	Regarding Policy 1.3, Protection of Property Rights, Ms. Monte staid the policy statements under this
2 3 4 5	heading deal with the protection of property rights and to what extent should landowners be guaranteed
4	the right to sell land or lots for rural development. She said that under this policy heading we are
5	proposing a significant change in policy. She noted that Policy 1.3 is divided into three sections and
6	the first one deals with guaranteeing the minimum basic development right. She said the direction
7	provided from the Ad Hoc Working Group is to still guarantee a minimum basic development right of
8	at least one house, so that if the tract is less than 40 acres and it does not have a house on it, then one
9	house can be allowed on that tract of land. She indicated, however, that if a house already exists, an
10	additional house on that tract will not be allowed. She said the bottom line is that the policy needs to
11	clarify that a basic development right will be allowed on all land, however that tracts that are less than
12	40 acres may not get a development right if there is already one house on that tract.
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14	Ms. Monte explained that Policy 1.3.2 is a policy statement that is proposed to be adjusted to mesh
15	with the recommended direction of 'one dwelling per 40 acres' ratio and that additional clarification in
16 17	the explanatory text for this policy statement would be helpful.
17	Concerning Policy 1.3.3, Ms. Monte pointed out that one significant change to be proposed is that the
19	County will not allow residential development of rural subdivisions beyond a basic development right
20	on tracts or sites with a Land Evaluation (LE) score of 85 or higher. She said that the proposed
21	restriction concerning residential subdivisions on LE soils of 85 or higher is a very significant change
22	to the adopted land use regulatory policies, and it is based on the recommendation of the Ad Hoc
23	Working Group.
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25	Ms. Monte said no changes are proposed to existing Policy 1.4, which addresses whether restrictions
26	should be imposed on rural land uses that may negatively affect or be affected by agriculture.
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28	Regarding Policy 1.5, Site Suitability for Development, Ms. Monte said that policy addresses the
29	question: 'To what extent should rural development be restricted based on site suitability concerns?'
30	She said this policy is divided into three separate sections and the only proposed change is to eliminate
31 32	the second section which states 'On the best prime farmland development will not be permitted unless the site is well suited, overall, for the proposed land use.' Ms. Monte said this proposed change is
32 33	based on discussions of the <i>ad hoc</i> working group, as are all the proposed changes to selected policies.
33 34	based on discussions of the ad not working group, as are an the proposed changes to selected poncies.
35	Ms. Monte said that staff had forwarded a question to the State's Attorney regarding Policy 1.8. She
36	said that policy deals with the agricultural exemption to zoning restrictions. She explained that under
37	the current policy 'all full-time and part-time farmers, and retired farmers, will be assured receiving the
38	benefits of the agriculture exemption even if some non-farmers receive the same benefits.' She said
39	that the staff's question to the State's Attorney regarded what leeway staff might have to implement
40	this policy, for example, what proof could be required, if any, to allow a landowner the agricultural
41	exemption from zoning restrictions? She said this is a very difficult exemption to administer over the
42	counter and that staff only has the word of the person requesting the exemption. She stated that staff is
43	still awaiting advice from the State's Attorney on this point.
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45	Ms. Busboom requested that staff investigate the property across the road from her farm concerning the
46	agricultural exemption granted previously. She said that there should be acreage and usage involved in
47	the proof of the land being used for farmland purposes. Ms. Monte said that these questions have been
48	posed to the State's Attorney and to personnel at the Champaign County Farm Bureau. She pointed
49 50	out that the farm bureau staff has received direction from the State Farm Bureau Office and there was
50 51	nothing new to consider at this point. Ms. Monte has been in contact with other counties around the state including the northern counties in the greater Chicago metropolitan area which deal with the
51	state menuting the normern counties in the greater enleago menopontan area which deal with the

agricultural exemption somewhat differently based on a specific state statute for them. She emphasized that the downstate counties, including Champaign County, are restricted on what can be done to implement this policy.

Ms. Greenwalt stated that when taxes are filed, one would assume there is income from the property and the federal government does not check to see if what you indicated on your forms is true. She asked if staff is asking for direction concerning proof of proper land use. Ms. Monte stated that the policy as it states presently is very liberal and extending out to anyone claiming to be a farmer, retired or otherwise. She explained that at the next meeting, staff would bring forward arguments for possibly altering this policy, making it more restrictive or not, or keeping it the way it reads based on the advice of the State's Attorney. Mr. Moser requested that the State's Attorney be asked to explain the classification of a landlord that is at risk with some type of lease, whether it be custom farm lease or cash rent lease, where there is some kind of risk involved, or whether it is a crop share lease. Ms. Monte stated that this is the type of question that has been posed to the State's Attorney.

Ms. Monte announced that the next meeting would be Thursday, July 27th at 9:00 a.m.

Mr. Moser requested that this committee invite Mr. Mark Toalson, GIS Manager, and Mr. Curt Deedrich, Supervisor of Assessments, to explain the GIS project on the four townships in the northern portion of the County.

- 6. Other business None
- 7. Adjournment

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29 30 The meeting was adjourned at 10:00 a.m.

- 28 Respectfully submitted,
 - Secretary to the Environment and Land Use Subcommittee