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DEAD RIVER/KELLOGG CREEK 1ST JOINT WATERSHED PLANNING MEETING OCTOBER 4, 2006 3-5PM

ILLINOIS BEACH STATE PARK CONFERENCE CENTER

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS

Patty Werner with Lake County Stormwater Management Commission (SMC) kicked off the meeting with a welcome from SMC, followed by consultant and participant introductions. Conservation Design Forum (CDF) is under contract to SMC for the completion of the Kellogg Creek watershed plan and Kabbes Engineering (KEI) is under contract to SMC to complete the Dead River watershed plan. CDF will be assisted by Montgomery Watson Harza (MWH); and KEI will be assisted by GeoSyntec (Geo) and Integrated Lakes Management (ILM). Jason Navota will be the point of contact for CDF and Karen Kabbes will be the point of contact for KEI. (A list of meeting attendees is attached.)

2.0 WATERSHED PLANNING (Copies of all of the PowerPoint presentations from the meeting can be found at: http://www.co.lake.il.us/smc/shedprofiles/Dead/DeadKell_Kickoff.asp.)

Scott Paszkiewicz of the Lake County Stormwater Management Commission (SMC) explained the concept of a watershed and the purpose of watershed planning efforts in Lake County. Dead and Kellogg are 2 of the 26 sub-watersheds in the county.

General watershed plan components consist of:

- Goals and objectives for the watershed plan
- An assessment of present and future watershed conditions
- Best management practices tool box
- An action plan for management and improvement

The plan will address stakeholders' (residents, governmental jurisdictions, businesses, other organizations) priorities including:

- Flood damage reduction
- Water quality improvement
- Protection/enhancement of the natural resources of the drainage system
- Others as defined by the stakeholders

This is scheduled to be a 15-month process, and separate planning committees and plans will be created for each watershed. Plan implementation will require municipalities and county agencies cooperation along with property owners.

3.0 WATERSHED PRESENTATIONS

Characterization of the Kellogg Creek Subwatershed

Jason Navota with Conservation Design Forum gave a virtual tour of the Kellogg Creek Watershed. The watershed includes three tributaries North Kellogg, South Kellogg, and an unnamed tributary sometimes referred to as Dead Dog Creek. The watershed planning area includes parts of Winthrop Harbor, Zion, Beach Park, Zion and Benton Townships. The northern limits of the

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watershed include Pleasant Prairie, WI and efforts will be made to incorporate Wisconsin stakeholders and data into developing the plan.

The presentation included maps of the watershed accompanied by photos taken during a recent field visit. Maps displayed included topography, water resources, land use and population, and were used to illustrate the impact of land uses on the tributaries. Photos demonstrated both positive and negative field observations: Illinois Beach State Park, open stream channels, ravines, problem stream channels (erosion, debris, structural damage), floodplains and forests, wetlands, and stormwater management practices.

Characterization of the Dead River Subwatershed

Patty Werner with SMC provided a snapshot view of the Dead River watershed. Beginning downstream, Patty discussed the Dead River in Illinois Beach State Park (IBSP), which is a dedicated nature preserve. Bull Creek flows into IBSP eventually reaching the Dead River, which flows into Lake Michigan during high flow events. The water flow patterns in Illinois Beach State Park are not always clear, as the topography is very flat. Bull Creek through Beach Park is the primary tributary for the northern part of the watershed, while Glen Flora Tributary drains the southern part of the watershed in Waukegan.

Patty presented information on watershed land use, water features (wetlands and streams) and demographics as part of the watershed characterization, and showed photos of the stream character and condition highlighting a restoration project completed on the downstream reach of Bull Creek by SMC and the Bull Creek Stakeholders Association.

- 31% of the watershed is wetland (mostly in IBSP).
- 27% of the wetlands are ADID (or high quality).
- The watershed stream tributaries include:
 - o Dead River
 - o An unnamed tributary (north of Bull Creek),
 - o Bull Creek North
 - ~ Includes 27th Street Tributary (Rachel Forester unofficially named this tributary Rachel Forester Creek for a recent US Army Corps of Engineers project),
 - o Bull Creek South,
 - ~ Includes Wilson Avenue Tributary,
 - o Glen Flora Tributary.
- The highest elevation in the watershed is 756 feet.
- The lowest elevation is 578 feet (in IBSP).
- 42,463 people, 7% of the county's population, live in the watershed.
- The watershed land use is
 - o 25% residential,
 - o 44% wetland, forest, open space and
 - o 18% transportation.

Patty discussed how land use & impervious cover (rooftops, roads, parking lots etc.) affect water quality and stream condition. Photos of different upstream and downstream sections of Bull Creek and Glen Flora Tributary were presented. The Glen Flora tributary is dammed and ponded at the Glen Flora Country Club.

Bull Creek Restoration Project

Project on Bull Creek between Sheridan Road and Railroad has dealt with:

- Steep banks, exposed utilities and included spending \$500-600,000 over 8 years.
- The stream banks were pulled back, creating floodplain terraces.
- The project was done because of the Bull Creek Stakeholders Association.

- The group is made up of homeowners who dedicated land for the project.
- This reach has a large debris blockage, which has not been addressed yet.

4.0 WATERSHED ASSESSMENT STATUS

Stream Inventory

Patty Werner presented a brief synopsis of the elements of the SMC stream inventory. Each stream tributary is divided into stream reaches of about 2000 feet generally demarcated by roads or other major junction points. Stream inventory information is recorded and compiled by stream reach. The information is in a database with associated photos and is available to anyone who would like to have it in an Arc Reader application.

Floodplain Studies

Dead River Subwatershed

Tony Wolff, SMC Watershed Engineer, described ongoing floodplain studies. The original Federal Emergency Management Agency (FEMA) floodplain studies date back from 1979. Bull Creek and Glen Flora Tributary are each being studied separately. Illinois State Water Survey (ISWS) is conducting the studies under contract to SMC. A site-specific flood mitigation study has also been prepared for Lake County Gardens subdivision in Waukegan.

Kellogg Creek Subwatershed

Montgomery Watson Harza (MWH) is conducting the Kellogg and Dead Dog Creek floodplain study updates under contract to SMC.

Water Quality Study

Mike Adam of the Lake County Health Department – Lakes Management Unit (LCHD-LMU), presented an overview of a water quality study for Dead Dog, Kellogg and Bull Creeks. The Health Department is under contract to SMC to collect and analyze water quality data during 2006-2007.

Presentation highlights:

- LCHD-LMU is collecting water quality and flow measures.
- Duration of data collection will be August – November 2006 and March/April – November 2007.
- Flow velocity, water level and discharge data are being collected as well as DO, conductivity, pH, turbidity and water temperature.
- Data are collected at 15 minutes intervals, 24 hours/day, 7 days/week.
- The Bull Creek site is more open and in summer gets warmer than other sites.
- Higher conductivity values usually indicate a more degraded stream.
- Higher conductivity is usually due to chloride from road salt applications.

5.0 QUESTIONS AND COMMENTS FROM THE STAKEHOLDERS

- What are the rights, obligations and restrictions of homeowners along the creek?
 - o Landowners are responsible for maintaining stream channel conveyance on their property. Any activity undertaken by a landowner that results in any type of fill material being placed in a floodplain will require floodplain and wetland permits.
 - o A portion of Bull Creek is within the Beach Park Drainage District, which does perform drainage improvement projects, but may not be very active due to limited financial resources as a result of a relatively low landowner assessment in their service area.
- What is the availability of data/maps? When will they be available on SMC's website?
 - o The data and maps presented today will be posted on the SMC website along with the meeting report

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- when it is completed.
- What is the outcome expected from the process?
 - o An action plan will be developed for each subwatershed that will include recommendations for both site or location specific practices (such as correcting areas of streambank erosion) and policy changes that will reduce flood damage and improve water quality and the natural resources of the drainage system.
- Fish can't get upstream because of blockages to fish passage – need to add fish passage from Lake Michigan to tributary streams as a watershed issue.
- There are downed trees along the creek.
- From Beach Road, Bull Creek runs SE to Wilson Ave. – in this stretch of the creek there are tank cars buried. The tanks cars were never properly sealed leaving gaps between the cars that have allowed soil accumulation.
- Under the east side of Wilson Ave., there are more buried tank cars that have totally filled up with debris. This area is deceiving because there is a concrete spillway on top of these culverts.
- About 135 feet east of Wilson Ave., where the Wilson Ave meets Bull Creek, underneath that ditch transite (asbestos) pipes are buried; these pipes were not sealed when they were laid so they have also filled up.
- On the corner of Manor and Edgewood leading north is more transite piping that goes into the system.
- Sanitary sewer overflow is an issue.

6.0 FACILITATED BRAINSTORMING SESSION

The meeting participants were divided into two subwatershed groups, one for the Dead River and one for the Kellogg Creek. SMC staff along with CDF and Kei conducted a facilitated session to identify watershed issues and opportunities that need to be addressed by the watershed plan. The lists below reflect the input from the participants of each of the groups.

Issues & Opportunities – Dead River Watershed

1. Information on control and identification of invasive plants
2. Habitat identification and management
3. Investigate impact of changing land use on groundwater and surface water levels
4. Erosion control
5. Adopt corrections in floodplain maps
6. Coordinate transportation projects with SMC
7. Better coordination among governments within the watershed
8. Encourage or restore fish passage from lakes up into stream
9. Stormwater infiltration into sanitary sewers in streams and other areas
10. Create group to maintain stream where homeowners are unable
11. Encourage good stream bank protection measures and remove poor practices or debris
12. Whoever has drainage easement needs to maintain property
13. Establish regular (annual/semi-annual) stream cleanup
14. Periodic homeowner newsletter of BMP
15. Streambank erosion control
16. Streambank vegetation restoration
17. Stream obstructions/enclosures
18. Reduce flooding
19. Restore hydrology for Glen Flora Tributary historic floodplain/wetland outfall location per Waukegan City Master Plan
20. Streambank restoration in ravine areas
21. How to update the map to remove properties or buildings from the flood insurance purchase requirement
22. Floodplain maps – up-to-date
23. Garbage/yard waste in streams

24. Location and cleaning of existing infrastructure including concrete "banks"
25. Exotic species control
26. Bluff erosion in ravines
27. Stream maintenance
28. Algae in creeks on Glen Flora and electric property
29. Stormwater management goals and responsibilities
30. Make grant funds available for homeowner to make bank repairs
31. Identify responsibilities of each jurisdiction and homeowners
32. Identify historic water flow patterns (ground and surface)
33. Remove concrete from abandoned properties
34. Road salt (chlorides) and other pollutants in runoff

Issues & Opportunities - Kellogg Creek Watershed

1. Flood Prevention
2. Impact of future development
3. Protect wetlands (mitigation)
4. Prevent wetland loss
5. Need detail hydrologic study
6. Streambank erosion (bird sanctuary, Novotny Park)
7. Dumping of yard waste
8. Stormsewer infrastructure aging
9. Protect streamside trees
10. Property loss due to streambank erosion
11. Debris (trees) blockages in ravines
12. Education of riparian land owners (buffers)
13. Compatibility of SWM with WI
14. Impediments to fish migration- reduced salmon runs
15. Remove manmade debris
16. WQ coming from storm sewers (city)
17. Streambank erosion from, and at, stormsewers
18. Disconnection of channels from Lake Michigan (drain at state line)
19. Mystery discharge- dewatering during construction?
20. Beaver dams
21. Lack of wetland maintenance
22. Funding for projects
23. Public involvement for watershed management
24. Acquire and protect open space in watershed
25. Creation of a management district or association
26. Exposed utilities within stream corridors
27. Infrastructure affected by erosion (roadways)

NEXT MEETINGS

Dead River will be November 1, 2006 at 7:00PM.

Kellogg Creek will be November 9, 2006 at 5:30 PM (regular meetings will be on second Thursday of the month)

For the next meeting we will discuss:

- Stream naming

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- Vote on priority watershed issues/opportunities
- Draft list of future meeting topics

October 4, 2006 Meeting Attendees

<u>NAME OF ATTENDEE</u>	<u>REPRESENTING</u>
Larry Matson	City of Waukegan
Mary Peloza	Self
Calvin & Lavonne Wilcox	Self
Joseph Sekulich	Self
John Moore	City of Waukegan
Thomas Chefalo	Lake Cty. Planning, Bldg. & Dev.
Janice Bock	Self
Richard & Jean Bogdala	Self
Ron Molinaro	Village of Winthrop Harbor
Marilyn Ross	Self
Natasha Shaw	State Rep. Eddie Washington
Terry Staples	Self
Judith Wilkes	Self
Rachel Foerster	Self
Lloyd Wickersheim	Self
S. I. Harris	Self
Gene Gross	Beach Park & Benton Township
Steve Rowan	Self
Jim Battista	Midwest Group/Pineview Cemetery
Debra Nelson	IDNR
Karen Kabbes	Kabbes Engineering
Bill Ward	Geosyntec Consultants
Lyle DeGraff	Self
Richard Vanderhoef	Self
Diana Vanderheyden	Self
William & Susan Fishback	Self
Bob Asma	Self
Jim Stanczak	Waukegan Airport
John M. Crombie	Self
Paula Illich	Self
Shartal Taylor	Self
Sandy Kubillus	Integrated Lakes Management
Robert Martin	Village of Pleasant Prairie

Donald White	Lake County Public Water Dist.
Bill Zika	Self
Ric Robinson	Self
Howard Parks	Self
Ronald Weldon	Self
Glenn Smith	Self
Jim Anderson	Lake County Forest Preserve
Adrienne Orr	Lake County Health Dept.
Jack Forney	Zion Industrial Park
Erica Heyl	Self & Bob Long
Mike Adam	Lake County Health Dept.
Joe Leccise	Self
Chip Parrott	RHMG/Beach Park
John Beardsley	Bill White, IL State Water Survey
Joe Synovic	Self
Judy Mackey	Self
Joe Robinson	NSSD
Curtis Mitzelfelt	Self
Tom Price	Conservation Design Forum
Jason Navota	Conservation Design Forum
Eric Otto	Conservation Design Forum
Justin Bartels	Montgomery Watson Harza
Tony Wolff	Lake County Stormwater Management Commission
Mike Warner	Lake County Stormwater Management Commission
Scott Paszkiewicz	Lake County Stormwater Management Commission
Patty Werner	Lake County Stormwater Management Commission

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KELLOGG CREEK 2nd WATERSHED PLANNING MEETING NOVEMBER 9, 2006, 5:30-7:30PM

WINTHROP HARBOR VILLAGE HALL

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS

Scott Paskiewicz [Lake County Stormwater Management Commission (SMC)] kicked off the meeting with a welcome from SMC, followed by consultant and participant introductions. Conservation Design Forum (CDF) is under contract to SMC for the completion of the Kellogg Creek watershed plan. CDF will be assisted by Montgomery Watson Harza (MWH). Jason Navota will be the point of contact for CDF.

2.0 REVIEW OF WATERSHED PLANNING PROCESS AND SCHEDULE

(Copies of all of the PowerPoint presentations from the meeting can be found at: 2006-11-09_CDF Kellogg WPC mtg schedule and process.ppt)

Jason Navota (CDF) reviewed the watershed planning process and the project schedule.

1. 9/2006–1/2007
 - a. Watershed Inventory-data collections and analysis
 - b. GIS mapping and analysis
2. 2/2007–3/2007
 - a. Develop watershed goals and objectives
 - b. Develop watershed management toolbox
3. 4/2007–5/2007
 - a. Develop watershed improvement recommendations
 - b. Develop watershed improvement action plan
4. 6/2007–8/2007
 - a. Develop implementation plan
5. 9/2007–11/2007
 - a. Develop draft and final watershed plan, maps, graphics, and illustrations

Questions from the participants included:

1. Is water quality data being collected and incorporated?
 - a. DOH collected basic water quality data (pH, DO, Specific Conductivity, Temperature) for 8/2006–11/2006.
2. Does the watershed plan get submitted to ACoE?
 - a. No.
3. What are the dynamics of the SMC-public relationship?
 - a. SMC leads the watershed planning process with input from public.
4. Whose [watershed] plan is it?
 - a. The plan belongs to the residents of the watershed.

3.0 REPORT ON STREAM CONDITION IN THE WATERSHED

Scott Paskiewicz (SMC) detailed the 2001 SMC Stream Inventory, performed by summer interns.

Questions from the participants included:

1. What streambed slope causes headcutting?
 - a. There is no “magic slope,” a combination of factors lead to headcutting.

Comments from the participants included:

1. Juvenile snapping turtles were seen in the stream.

4.0 PRIORITIZATION OF THE WATERSHED ISSUES AND OPPORTUNITIES

Scott Paskiewicz (SMC) reviewed the issues and opportunities developed at the last meeting. Following that, the issues and opportunities were ranked by the meeting participants. Final ranking, from most important to least important with rank in parentheses were:

- Property loss due to streambank erosion (23)
- Naturalize stream and flow patterns in state park (14)
- Funding for projects (12)
- Need for detailed hydrologic study (11)
- Streambank erosion [bird sanctuary, Novotny Park] (10)
- Education of riparian land owners [buffers] (10)
- Streambank erosion from, and at, stormsewers (9)
- Disconnection of channels from Lake Michigan [drain at state line] (9)
- Acquire and protect open space in watershed (8)
- Lack of wetland maintenance (7)
- Protect wetlands [mitigation] (6)
- Flood prevention (5)
- Impediments to fish migration-reduced salmon runs (4)
- Debris (trees) blockages in ravines (2)
- Beaver dams (2)
- Impact of future development (2)
- Prevent wetland loss (1)
- Protect streamside trees (0)
- Exposed utilities within stream corridor (0)
- Promote native vegetation (0)
- Stormsewer infrastructure aging (0)
- Compatibility of SWM with WI (0)
- Infrastructure affected by erosion [roadways] (0)
- Mystery discharge-dewatering during construction? (0)
- WQ coming from stormsewers [city] (0)
- Dumping of yard waste (0)
- Removing manmade debris (0)

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- Water quality (0)
- Pesticides (0)
- Public involvement for watershed management (0)
- Creation of a management district or association (0)

Questions from the participants included:

1. Are there guidelines for homeowners regarding planting of non-native vegetation?
 - a. No, but this could be part of the education aspect of the final watershed plan.

Comments from the participants included:

1. There is garbage being dumped at the 7th Street ravine at the state park.

5.0 SCHEDULE NEXT MEETING

The next meeting was scheduled for Thursday, December 14, from 3–5 p.m. The meeting will be a combined Kellogg Creek-Dead River meeting. Location is to-be-determined.

Comments from the participants included:

1. The meeting should be advertised in local newspapers to boost participation.

6.0 ADJOURN

KELLOGG CREEK/DEAD RIVER 3rd WATERSHED PLANNING MEETING DECEMBER 14, 2006, 3:00-5:00PM

BEACH PARK VILLAGE HALL

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS

Patty Werner from the Lake County Stormwater Management Commission (SMC) kicked off the meeting with a welcome and introduction of the project team: Scott Paskiewicz and Rasto Vrazda from SMC, and Tom Price, Jason Navota, and Eric Otto from Conservation Design Forum (CDF). CDF is under contract to SMC for the completing the Kellogg Creek and Dead River watershed plans. CDF will be assisted by Montgomery Watson Harza (MWH). Jason Navota will be the point of contact for CDF.

The attendees introduced themselves and who they were representing.

2.0 RECAP-WATERSHED PLAN SCHEDULE AND PROCESS

Jason Navota reviewed the watershed planning process and the schedule. This was the first time that the Dead River Watershed Planning Group saw the presentation, but the second time for the Kellogg Creek Group.

The presentation can be found on the SMC Web site (http://www.co.lake.il.us/smc/shedprofiles/Dead/Dead_default.asp).

Questions/comments from the participants included:

1. Will the final watershed plans include executable tasks and identify the party (ies) responsible for executing the tasks?
 - a. Yes, the plan will include both; watershed residents will be responsible for implementing some of the actions/tasks.

3.0 WATERSHED ASSESSMENT-WATER QUALITY

Three presentations were given:

1. Overview: watershed impact on water quality, Tom Price
2. 1st season water quality monitoring results, Mike Adam, Lake County Health Department
3. Water chemistry & biology assessment finding, Jason Navota

The presentations can be found on the SMC Web site (http://www.co.lake.il.us/smc/shedprofiles/Dead/Dead_default.asp).

Questions/comments from the participants included:

Tom Price's presentation:

1. The watershed planning process is long; what can homeowners do prior to completion of the plan?
 - a. Scott Paszkiewicz suggested a future meeting topic devoted to discussing this topic. Patty Werner told of other watershed groups that developed demonstration projects in conjunction with watershed planning using funds that were dedicated for this use.
2. How do proposed 40-acre developments that don't incorporate "smart-development" practices get approved? Is SMC or

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CDF involved in the approval process? How can watershed residents positively affect watershed development? These questions relate specifically to Covenant Cove Phase 4 on Russell Road, east of Old Darby Road and the Walmart store in Zion, which is planning to store stormwater underground and discharging it from there directly to the creek.

- a. The Watershed Development Ordinance does not require “smart-development” practices on projects; it does, however, recommend them. Municipalities are moving in the right direction, albeit slowly with regards to “smart-development.” SMC is involved in permitting the watershed development if the municipality is not certified by SMC to administer the Watershed Development Ordinance (WDO) and issue permits. Within the Kellogg & Dead watersheds the communities of Waukegan, Beach Park and Unincorporated Lake County are certified to issue watershed development permits (WDPs). Winthrop Harbor and Zion are non-certified communities; therefore, SMC will issue the WDPs in these jurisdictions. CDF is not involved in the approval process, but is involved in “smart-development.” Scott Paszkiewicz will inquire as to the status of these development reviews.

Mike Adam's presentation:

3. Are the landfills indirectly responsible for the swim bans, which are caused by gull droppings? Are there techniques to discourage gulls at the landfills? The gull droppings contain *E. coli*, which is an indicator for fecal contamination.
 - a. No definitive studies have been performed to prove this, but there is a large population of gulls that frequents the landfill. Harassment of the gulls on the beaches is effective, but they only migrate to the next available beach.
4. Road salt contributes to degraded water quality; why is it not more strictly regulated and monitored? Why isn't water quality monitoring done during the winter when road salt is being applied?
 - a. There is a balancing act between human safety and environmental quality. When the road salt application decision is made communities err on the side of human safety.
 - b. Winter monitoring is difficult and potentially costly due to the potential for damage to the equipment during extreme weather conditions (i.e., ice). Each monitoring sonde costs approximately \$7,000. We do plan on taking some chloride and conductivity samples in the spring before we reinstall the monitoring equipment.

Jason Navota's presentation:

5. Patty Werner commented that the low IBI score on Bull Creek in 2005 may be attributed to the stream biota not yet recovering from the restoration work done on the sampled reach of Bull Creek between Sheridan Road and the railroad tracks. There was also a sanitary sewer spill into the stream a few months prior to the sampling that resulted in a fish kill.

4.0 STREAM NAMING PROTOCOL UPDATE

This topic was not covered at the meeting. It will be discussed at a future meeting when more information on the stream naming effort by the County's established work group is available. The work group will continue researching historic names. They are focusing on naming unnamed lakes and detention ponds first.

5.0 SUBWATERSHED BREAKOUT GROUPS

Refer to the following pages.

6.0 NEXT MEETING

The next meeting was scheduled for Thursday, January 11, 2007, from 6:30–8:30 p.m., a location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

December 14, 2006 Meeting Attendees

<u>NAME OF ATTENDEE</u>	<u>REPRESENTING</u>	<u>WATERSHED</u>
Don Wilson	Self	Both
Gene Gross	Beach Park	Dead
LeRoy Boldt	Beach Park	Dead
John Moore	City of Waukegan	Dead
Tom Chefalo	Lake County Planning and Development	Both
Sara Creque	Illinois Natural History Survey	Both
Nick Huber	Lake County Forest Preserves	Dead
Jeffrey Koziel	Land Conservancy of Lake County	Dead
Dan Shappert	Self and Bull Creek Stakeholders Association	Dead
Curtis Mitzelfelt	Self	Kellogg
Judith Wilkes	Self	Dead
Rachel Forester	Self	Dead
Richard Vanderhoef	Self	Dead
Adrienne Orr	Lake County Health Department	Both
Mike Adam	Lake County Health Department	Both
Chip Parrott	RHMG/Beach Park	Dead
Jim Stanczak	Waukegan Regional Airport	Dead
Jeff Greenspan	Trust For Public Land	Both
Tom Rush	Beach Park	Dead
Erica Heyl	Self and Bob Long	Kellogg
Diana Vanderheyden	Self	Kellogg
Larry Anglada	Zion Benton Township High School	Both
Bruce Mihelich	City of Zion	Both
Susie Schreiber	Waukegan CAG	Both
John M Crombe	Homeowner	Kellogg
Pat Bleck	Beach Park Drainage District	Dead
Tom Price	Conservation Design Forum	Project team
Eric Otto	Conservation Design Forum	Project Team
Jason Navota	Conservation Design Forum	Project Team
Rasto Vrasda	Lake County Stormwater Management Commission	Project Team
Scott Paskiewicz	Lake County Stormwater Management Commission	Project Team
Patty Werner	Lake County Stormwater Management Commission	Project team

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KELLOGG CREEK/DEAD RIVER 4th WATERSHED PLANNING MEETING JANUARY 11, 2007, 6:30-8:30PM

BEACH PARK VILLAGE HALL

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS

Patty Werner from the Lake County Stormwater Management Commission (SMC) announced that Scott Paskiewicz would be leaving SMC, and would no longer be the project manager for the Kellogg Creek Watershed Planning project.

Scott Paskiewicz delivered a welcome and introduction of the project team: Patty Werner and Tony Wolff from SMC; Tom Price, Jason Navota, and Eric Otto from Conservation Design Forum (CDF); and Justin Bartels and Erin Maloney from Montgomery Watson Harza (MWH). CDF is under contract to SMC for completing the Kellogg Creek and Dead River watershed plans. CDF will be assisted by MWH. Jason Navota will be the point of contact for CDF.

The attendees introduced themselves and who they were representing.

2.0 DECEMBER MEETING FOLLOW-UP

Last meeting, questions arose regarding the Covenant Cove and Walalmart developments. Regarding the Covenant Cove development, attendees wanted to know if SMC had reviewed plans for the project and the current stage of the project. SMC relayed that they had not received plans for the project. SMC also found out that the project required a jurisdictional wetland determination from the Army Corps of Engineers and a Base Flood Elevation determination. The Covenant Cove development has not received approval from the municipal planning commission. Regarding the Walalmart development, attendees were concerned that a stormwater outfall discharged directly to a small creek. SMC relayed that the stormwater outfall discharges to a vortex structure, followed by a bioswale, followed by a roadside ditch.

Questions/comments from the attendees included:

Q: What size particles are removed by the vortex structure?

A: Sand size particles are removed by the vortex structure. The bioswale will remove other pollutants, such as nutrients.

At the prior meeting, the answer to a question regarding land-use density was misinterpreted. Tom Price clarified that as overall land-use density increases, IBI values decrease. This is not, however, a recommendation for large (5-acre) residential lots. Alternatively, clustering of development and high-density land-use can result in large tracts of open-space, which may be beneficial to watershed resources. Tom Price also noted that many factors besides water quality are important when considering land-use planning.

Questions/comments from the attendees included:

Q: Is this a recommendation for multi-family housing?

A: No, this is not a recommendation for multi-family housing. Water quality is one of many factors that must be contemplated when planning for land-use and density. The watershed plan will not be a land-use plan or contain zoning recommendations or regulations.

Q: Where do cross-jurisdictional discussions take place?

A: Cross-jurisdictional discussions can take place at the watershed planning meetings. SMC, CDF and MWH can present concepts and help develop issues and opportunities, but it is up to the watershed residents to voice their concerns with local governments.

Q: Are the key players for cross-jurisdictional discussions at the watershed planning meetings?

A: Efforts are made to have the key players present.

C: Property owners have rights—they can do whatever they want with their property, as long as the law permits.

Scott Paskiewicz offered to recap the issues and opportunities list revisions from the Dead River group; however, no attendees wanted a recap.

Questions/comments from the attendees included:

Q: What percentages of the attendees are from each watershed?

A: The attendees are split approximately in half, 50% from the Kellogg Creek watershed and 50% from the Dead River watershed.

Scott Paskiewicz asked for comments on the summary from last meeting. The attendees provided no comments.

3.0 STREAM CLEAN-UP

Scott Paskiewicz and Patty Werner spoke on a possible future meeting topic: Watershed Resident Riparian Clean-Ups. The Lieutenant Governor encouraged SMC to have the watershed residents apply for a grant to fund this effort.

4.0 GREEN INFRASTRUCTURE

Three presentations were given.

1. CDF & MWH: Green infrastructure elements in the Dead and Kellogg watersheds and draft open-space inventories. Jason Navota and Erin Maloney presented.

Questions/comments from the attendees included:

C: There are two groups that could potentially perceive negative outcomes of green infrastructure: developers, who can't develop wetlands and thereby lose property value, and school districts, who can't receive tax revenue from wetlands or other protected green infrastructure.

Q: What is a wetland seep?

A: A wetland seep is a wetland that is being fed by an outflow of groundwater through the ground or a hillside.

Q: Can the attendees receive an overview of wetland regulations?

A: Yes, this can be presented at a future watershed planning meeting.

Q: Are there wetlands in the watersheds that are suitable for restoration?

A: Yes, there are wetlands that would benefit from restoration and management.

Q: Are there more benefits from green infrastructure in the headwaters or lower reaches of a watershed?

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A: If all else is equal, the green infrastructure in the headwaters will yield more benefits. However, it is important to consider both benefits from green infrastructure and protection from flooding, which can be accomplished by green infrastructure in the lower reaches.

Q: Do wetlands impact hydrology?

A: Yes, wetlands are an important piece of the hydrologic cycle.

2. Lake County Forest Preserve District: Highlights, issues, and opportunities for Forest Preserve properties. Debbie Maurer, Ecologist, presented.
3. Illinois Beach State Park: Highlights, issues and opportunities for the Park. Don Wilson, Steward, presented.

All three presentations can be found on the SMC Web site (<http://www.co.lake.il.us/smc/>).

5.0 DISCUSSION

Due to time constraints, this portion of the agenda was postponed until the next meeting.

Scott Paskiewicz and Patty Werner provided a “homework assignment” for the attendees: review the 15 green infrastructure prioritization criteria for the next meeting.

Questions/comments from the attendees included:

Q: Could the discussion on the green infrastructure prioritization criteria be done with a conference call?

A: That would be too difficult with a group this large. The next meeting will be a discussion session on: stream clean up, green infrastructure prioritization criteria, and preliminary map review. The meeting and topic schedule will be revised to accommodate discussion and catch-up needs.

Patty Werner explained how the parcel prioritization process will work.

6.0 NEXT MEETING

The next meeting was scheduled for Thursday, February 15, 2007. A time and location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

January 11, 2007 Meeting Attendees

<u>NAME OF ATTENDEE</u>	<u>REPRESENTING</u>	<u>WATERSHED</u>
Don Wilson	Self	Both
Larry Matson	City of Waukegan	Dead
Ronda Nissen	Self	Kellogg
Deb Maurer	Lake County Forest Preserves	Dead
Jeffrey Koziel	Land Conservancy of Lake County	Dead
Dan Shappert	Self and Bull Creek Satkeholders Association	Dead
Rachel Forester	Self	Dead
Richard Vanderhoef	Self	Dead
Adrienne Orr	Lake County Health Department	Both
Steve Wikner	Waukegan Park District	Dead
Joe Hughes	Self	Dead
Robert Cade	North Shore Sanitary District	Both
Erica Heyl	Self	Kellogg
Bob Long	Self	Kellogg
John M Crombie	Homeowner	Kellogg
Curtis Mitzelfelt	Self	Kellogg
Denise Rolando	Self	Dead
Tom Price	Conservation Design Forum	Project Team
Eric Otto	Conservation Design Forum	Project Team
Jason Navota	Conservation Design Forum	Project Team
Erin Maloney	MWH	Project Team
Justin Bartels	MWH	Project Team
Scott Paskiewicz	Lake County Stormwater Managment Commission	Project Team
Tony Wolf	Lake County Stormwater Management Commission	Project Team
Patty Werner	Lake County Stormwater Management Commission	Project Team

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KELLOGG CREEK/DEAD RIVER 5th WATERSHED PLANNING MEETING FEBRUARY 15, 2007, 3:00-5:00PM

BEACH PARK VILLAGE HALL

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS

Patty Werner from the Lake County Stormwater Management Commission (SMC) delivered a welcome and introduction of the project team: Patty Werner, Crissy Mehle, Tony Wolff, and Rasto Vrazda from SMC; and Jason Navota and Eric Otto from Conservation Design Forum (CDF).

Patty Werner announced that Tony Wolff was promoted to Chief Engineer. His replacement as Watershed Engineer is Crissy.

CDF is under contract to SMC for completing the Kellogg Creek and Dead River watershed plans. CDF will be assisted by MWH. Jason Navota will be the point of contact for CDF.

The attendees introduced themselves and who they were representing.

2.0 JANUARY MEETING FOLLOW-UP

Patty Werner asked for comments on the draft summary from last meeting. The attendees provided no comments, so the meeting report was accepted as presented.

3.0 STREAM CLEAN-UP

Patty Werner detailed an in-progress SMC grant application effort to obtain funding for a stream clean-up and riparian landowner workshop. SMC is partnering with the Alliance for the Great Lakes. A storm drain stenciling activity was suggested; however, the watersheds contain few storm drains, which limits the impact of this activity. A citizen monitoring activity was also suggested; however, this would likely be attractive to a few individuals and is not high profile.

Questions-answers/comments-responses from the attendees included:
(Q=question; C=comment; R=response)

Q: What is the level of effort associated with the stream clean-up?

A: Trash will be removed; in addition, there is a significant amount of woody debris that requires cutting, removal, and chipping.

C: The stream clean-up event should be high profile in order to raise awareness of the watershed planning effort. Fossland Park was the suggested location.

C: The riparian landowner workshop should include a hands-on, outdoor activity.

C: Riparian landowners would benefit from educational materials listing good/bad debris, vegetation, management practices, etc.

R: Patty Werner provided the SMC Riparian Area Management: A Citizen's Guide document to attendees. SMC will mail the riparian landowner guide with an introductory letter to all riparian landowners as a component of the proposed education and

outreach project. Several residents in Winthrop Harbor are planning to go door to door in their neighborhoods to distribute a guide and talk with their neighbors about stream clean up/restoration efforts.

C: The average watershed resident doesn't know that the watershed planning process is taking place or that the watershed planning committee exists. There needs to be more outreach to educate residents and increase involvement.

R: Patty Werner responded that all riparian landowners in the watersheds were invited to the original watershed planning committee meeting and that those who have attended all meetings and anyone else who has requested is on the contact list for the meetings and updates. She has spoken with SMC's public information coordinator about getting out press releases and community calendar and website updates – she will verify that these are being sent out.

C: There needs to be even more public outreach than previously provided. The following items were suggested:

- Press coverage for the stream clean-up,
- Watershed planning committee meeting advertisement on local public access cable television channel,
- Presentation at local garden club meetings,
- Door-to-door campaigns,
- Rotary club presentations,
- Advertisement at local libraries,
- Presentations at local women's clubs,
- Presentations at local Boy Scout meetings,
- Presentations at local ROTC meetings.

Jason Navota delivered a brief presentation on what riparian landowners can do to improve the watershed. The presentation can be found on the SMC Web site (<http://www.co.lake.il.us/smc/>). Hyperlinks to Web sites and publications referenced in the publication can also be found on the SMC Web site. The Ecological Planning and Design Directory contains a host of good information and can be found at: <http://www.nipco.org/environment/sustainable/>.

Patty Werner commented that the topic schedule for the watershed planning committee meetings has been pushed back. There may be an additional meeting in March to discuss the goals and objectives of the watershed planning effort.

4.0 GREEN INFRASTRUCTURE

Patty Werner summarized the green infrastructure plan and prioritization process discussed at the January watershed planning committee meeting. She explained that the consultant teams have produced maps of open/partially-open parcels that will be discussed during this meeting.

Patty Werner discussed the rules to facilitate discussion and decision-making, and suggested that 75 percent agreement be considered a consensus. The attendees agreed that 75 percent agreement would be considered a consensus, but will revisit this percent if it doesn't seem to work in the future. Participants will be asked for their consensus and will be expected to express their disagreement if they do not agree.

Jason Navota revisited the green infrastructure prioritization criteria, and asked for comments from the attendees.

Questions-answers/comments-responses from the attendees included:

Q: What water quality pollutants are the consultants considering as part of the non-point source pollution hotspot analysis?

A: There are approximately 6–7 pollutants including phosphorus, nitrogen, total suspended solids, and various metals.

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C: Criteria #9 should be eliminated because a majority of the parcels in the watershed are undetained.

R: The attendees provided a consensus agreement.

C: Criteria #10 and 13 should be placed adjacent because they are similar.

R: The attendees provided a consensus agreement.

C: GI Prioritization Criteria/watershed planning topics matrix should be updated to show that the 100-year floodplain criteria is also applicable to all four watershed topics/concerns. It was also noted that the highly erodible soils criteria is applicable to the stream topic.

Jason Navota asked for a consensus agreement on the green infrastructure prioritization criteria.

R: The attendees provided a consensus agreement.

The revised Green Infrastructure Inventory and Prioritization document can be found on the SMC Web site (<http://www.co.lake.il.us/smc/>).

The Committee then divided up into several smaller groups and reviewed the Green Infrastructure maps and aerial photographs provided by CDF and provided comments on those maps. A general request was made to provide the open space inventory in opaque colors directly over the aerial photographs for the next review.

5.0 NEXT MEETING

The next meeting was scheduled for Thursday, March 8, 2007 from 6:30–8:30 pm. A location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

February 15, 2007 Meeting Attendees

<u>NAME OF ATTENDEE</u>	<u>REPRESENTING</u>	<u>WATERSHED</u>
Don Wilson	Self	Both
Tom Chefalo	Lake County Plan Department	Both
Susie Schriber	Waukegan Harbor Citizen's Advisory Group	Dead
Nick Huber	Lake County Forest Preserve District	Both
Jeffrey Koziel	Land Conservancy of Lake County	Dead
Dan Shappert	Self & Bull Creek Stakeholders Assn.	Dead
Jim Stanczak	Waukegan Port District Waukegan Airport	Dead
Richard Vanderhoef	Self	Dead
Adrienne Orr	Lake County Health Dept.	Both
Steve Wikner	Waukegan Park District	Dead
Joe Hughes	Self	Dead
Robert Cade	North Shore Sanitary District	Both
Leroy Bolt	Village of Beach Park	Dead
Chip Parrott	Village of Beach Park	Dead
Judy Wilkes	Self	Dead
Curtis Mitzelfelt	Self	Kellogg
Doug & Barb Jaeger	Self	Dead
Eric Otto	Conservation Design Forum	Project Team
Jason Navota	Conservation Design Forum	Project Team
Crissy Mehle	Lake County Stormwater Management Commission	Project Team
Rasto Vrazda	Lake County Stormwater Management Commission	Project Team
Tony Wolff	Lake County Stormwater Management Commission	Project Team
Patty Werner	Lake County Stormwater Management Commission	Project Team

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KELLOGG CREEK/DEAD RIVER 6th WATERSHED PLANNING MEETING MARCH 8, 2007, 6:30-8:30PM

WAUKEGAN CITY HALL

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS

Patty Werner from the Lake County Stormwater Management Commission (SMC) delivered a welcome and introduction of the project team: Patty Werner, Tony Wolff, and Mike Prusila from SMC; Jason Navota, Tom Price, and Eric Otto from Conservation Design Forum (CDF), and Erin Maloney from Montgomery Watson Harza (MWH).

Patty Werner announced that Mike Prusila is the new project manager for the Kellogg Creek Watershed Plan.

CDF is under contract to SMC for completing the Kellogg Creek and Dead River watershed plans. CDF will be assisted by MWH. Jason Navota will be the point of contact for CDF.

The attendees introduced themselves and who they were representing.

2.0 FEBRUARY MEETING FOLLOW-UP

Patty Werner asked for comments on the draft summary from last meeting. The attendees provided no comments, so the meeting report was accepted as presented.

Patty also announced that SMC did a press release for the media and community webmasters about this meeting. Someone mentioned that they saw it noticed in the Sun Times.

3.0 EDUCATION AND OUTREACH

Patty Werner explained that the grant application for the outreach and education activities (including stream clean-up) was submitted to the Great Lakes Basin Program.

Proposed Education and Outreach activities include:

1. Mailing of the Riparian Area Management Guide (available from Patty Werner);
2. Stream Clean-Up Training/Event (lead: Alliance for the Great Lakes);
3. Watershed Bus Tour (lead: SMC);
4. Riparian Landowner BMP Workshop (lead: Alliance for the Great Lakes).

The Stream Clean-Up Training/Event location is still undetermined, but Fossland Park was suggested. Patty will follow-up on this.

The Watershed Bus Tour will take place for both Kellogg Creek and Dead River watersheds and will be approximately 6 hours long and held on a Saturday morning and early afternoon.

The Riparian Landowner BMP Workshop will include indoor and field training segments.

4.0 WATERSHED ASSESSMENT RESULTS

Patty pointed out that while the watershed assessment is not complete at this time, CDF is going to present the results to-date. Several components of the assessment will have to be presented at a future meeting. These include:

- ~ the results of the flood plain study and re-mapping; (draft completed – being reviewed and revised)
- ~ the flood damage and flood risk assessments;
- ~ potential regional storage sites;
- ~ potential wetland restoration sites;
- ~ the impervious cover analysis and vulnerability assessment for subwatershed management units;
- ~ the non-point pollutant loadings assessment,
- ~ point sources of pollution,
- ~ causes and sources of pollution
- ~ identification of critical areas; and
- ~ the green infrastructure prioritization

Jason Navota presented the draft watershed assessment results. The presentation can be found on the SMC Web site (<http://www.co.lake.il.us/smc>).

Questions/answers and comments/responses from the attendees and consultants included:

Q: What makes a ravine steep – are all ravines steep?

A: A ravine is steep by nature, but there is no quantitative measurement to determine what is ‘steep’. The County considers a slope of 8% or more a steep slope.

Q: What is a high FQI?

A: A Floristic Quality Index (FQI) above 70 is considered high and indicates good diversity of plant species.

Q: What are ADID wetlands?

A: ADID (ADvanced IDentification) wetlands are wetlands that have one or more high quality functional characteristics such as natural value, wildlife habitat, water quality or flood reduction as determined at the time of the assessment.

Q: What is runoff potential for soil?

A: Runoff potential is the tendency for water to flow off of a soil rather than infiltrate into or be absorbed by the soil. High runoff potential corresponds to low soil infiltration potential. As an example, sandy soils infiltrate very quickly, whereas tight clay soils infiltrate very slowly.

C: The watershed demographic slide should read “Projected” not “Planned.”

R: Noted.

Q: Why does the Dead River employment projection decrease?

A: A possible reason (offered by meeting attendees) is that some areas of the watershed are projected to change from industrial to residential land uses, resulting in fewer jobs. CDF will follow up on this and check to see if this projection is in error.

Q: What is the tree density of Savanna?

A: The tree density varies, but is approximately one (1) tree per acre.

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C: The Upland Forest on the presettlement map is not the dense, overgrown forest that is common in the watershed today.

R: Noted

C: The land use along Sheridan Road for the Kellogg Creek map appears to have the incorrect color.

R: Noted.

C: The widening of Green Bay Road is not reflected in IDOT CIP, but should be reflected in the Watershed Plan.

R: Noted

C: The narrowing of Sheridan Road is also a potential future project that should be considered in the Watershed Plan.

R: Noted.

C: The Watershed Plan should include detailed information on detention basins.

R: Noted.

C: The Little Dead River historically connected the harbor south of Johns Manville to the Dead River. It has been brought to the project team's attention that there is an approximate six (6) inch elevation change over a swale reach connecting the John Mansville Lagoons to IL Beach State Park to the north that may be causing some odd hydrologic conditions, such as a reversal of flow during heavy rainfall. Patty Werner and the project team will be looking into it.

R: Noted.

Q: What is the orange color on the channelization maps?

A: CDF will investigate this issue. Isn't Kellogg Creek in IL Beach State Park channelized?

Q: Is channelization only a result of human influences?

A: Yes.

Q: Why does the 27th Street Tributary change from High to Moderate channelization at 33rd Street?

A: The actual change at that point of the stream is not that drastic, this is an inherent property of the map and the data, which show average conditions over an entire reach—if the average condition changes between two reaches, the color will abruptly change where those reaches join.

Q: What is a gully?

A: A gully is a defined channel, wet or dry.

C: The stream channel in Beulah Park has significant bank erosion.

R: Increased stream flow volumes and rates resulting from urbanization have resulted in this erosion, and the lack of ground plain vegetation has not helped to hold the soil in place.

Q: Is tree removal necessary to restore light to the forest floor adjacent to the stream to allow for low-growing vegetation?

A: Yes, however it does not necessarily mean removal of big canopy trees. Understory trees such as buckthorn should be removed, which may allow sufficient light to the forest floor.

C: The Dead River has a silty substrate, which makes for poor habitat, and it's the only river that constantly maintains contact with Lake Michigan.

R: CDF will confirm this.

Q: Are lost wetlands recoverable?

A: Yes, generally you can restore wetlands by returning the natural hydrology to a historic wetland area. You can also plant/seed it with wetland plant species, but in areas where the soil has not been significantly disturbed, the historic seed bank in the soil may be sufficient to repopulate the wetland with plants on its own.

C: Sand Pond will be sampled again by LCHD from May–September 2007.

R: Noted.

C: Paxton Drive is in Beach Park, not Wadsworth.

R: Noted.

C: A corrected version of the dissolved oxygen graph with the corresponding sample dates is available.

R: Noted.

C: Dissolved oxygen (DO) trends are not correlated to precipitation.

R: Noted. In some of the sampled streams such as Bull Creek there are large daily swings in the DO.

C: Peak turbidity measurements were delayed from peak storm events.

R: Noted.

C: The Outboard Motor Corporation should be correctly cited as Outboard Marine Corporation.

R: Noted.

Q: Why are only Johns Manville and Outboard Marine Corporation listed as contaminated sites when many others exist?

A: CDF will research and include additional known contaminated sites in the Watershed Plan.

C: The City of Waukegan has performed infiltration tests on its sanitary sewer system. There is a problem with stormwater getting into the sanitary lines.

R: Noted.

Q: *Where are the Low Priority Green Infrastructure Parcels?*

A: The analysis is forthcoming.

C: *Some future planned developments are not reflected in the Green Infrastructure maps.*

R: Noted. The map may not reflect recent changes or developments in the discussion or approval stages.

5.0 GOALS AND OBJECTIVES

Will be discussed at the next meeting.

6.0 NEXT MEETING(S)

Patty Werner announced that it may be necessary to have two meetings in April to complete goals, objectives and indicators for the watershed plans. The group agreed to see how far we get at the April 12th meeting before scheduling a second meeting in April.

The next meeting was scheduled for Thursday, April 12, 2007. The meeting will be held in the afternoon, and a location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

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KELLOGG CREEK/DEAD RIVER 7th WATERSHED PLANNING MEETING April 12, 2007, 3:00-5:00PM

BEACH PARK VILLAGE HALL

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS

Patty Werner from the Lake County Stormwater Management Commission (SMC) delivered a welcome and introduction of the project team: Patty Werner, Tony Wolff, Crissy Mehle, Rasto Vrazda, and Mike Prusila from SMC; Jason Navota and Tom Price from Conservation Design Forum (CDF). CDF is under contract to SMC for completing the Kellogg Creek and Dead River watershed plans. CDF will be assisted by MWH. Jason Navota will be the point of contact for CDF. The attendees introduced themselves and who they were representing. An attendance list is attached.

Announcements: Patty Werner announced that SMC will look into inventorying stream reaches in IL Beach State Park where possible. These reaches were missed during the first inventory. The Wilson Avenue Tributary and any other missed tributaries will be added to the inventory also. IEP A and IDNR will be sampling for water quality, macroinvertebrates, and fish in Kellogg Creek, Dead-Dog Creek and Bull Creek this summer. North Shore Sanitary District has offered to also sample chemical water quality parameters in the same creeks, and will also sample Glen Flora Tributary quarterly. Lake County Forest Preserve District, Illinois State Geologic Survey, US Geologic Survey, Illinois Department of Natural Resources and Lake County Health Department have teamed up to conduct a hydrologic and water quality study of Illinois Beach State Park this year also.

2.0 MARCH MEETING FOLLOW-UP

Patty Werner asked for comments on the draft summary from last meeting. The attendees provided no comments, so the meeting report was accepted by the group as presented.

3.0 EDUCATION AND OUTREACH

Patty Werner is scheduled to give presentations on Dead River/Kellogg Creek watershed planning at the Waukegan Harbor Citizen's Advisory Group, and the Lake Michigan Watershed Ecosystem Partnership this month. She will follow-up on some contacts Judith provided and will check into making future presentations for several garden clubs.

SMC is looking into having Lake County Department of Transportation post a sign about the watershed planning effort being underway below the watershed identifier signs that are already posted in several locations around the watershed. There were comments that these signs might include a telephone number for getting involved in the watershed planning effort. Additional stream crossings could be signed as well. SMC will continue to look into this.

Patty requested an update about the Waukegan Airport runway expansion study, and Jim Stanczak replied that the airport is conducting an environmental impact study for the runway extension options being considered. A public hearing will be held to discuss the extension plans at some point in the future.

4.0 WATERSHED ASSESSMENT RESULTS (CONT.)

CDF presented updated results for instream habitat, riparian habitat, and pollutant loading hot spot analysis. CDF then presented the results of the Watershed Vulnerability Analysis and the Green Infrastructure Prioritization mapping. The presentation will be posted on the SMC Web <http://www.co.lake.il.us/smc> site.

CDF requested input on whether ranking Green Infrastructure parcels into two or three categories were preferred by the Watershed Planning Committee. An informal vote indicated that 7 stakeholders prefer three categories, and 2 stakeholders prefer two categories, some stakeholders expressed no preference. A comment was offered, and discussion ensued, regarding the language used to describe the rankings. "high", "medium", and "low priority" rankings seemed to be "loaded" words that may communicate something other than what is intended. "First", "second", or "third priority" was suggested as an alternative. The choice of colors was also discussed, and red, yellow, and green seem also to connote the wrong message. CDF will look into changing the colors to be more appropriate.

5.0 GOALS AND OBJECTIVES

CDF presented and handed out a compiled list of watershed issues based on stakeholder input and the watershed assessment and inventory. CDF asked whether there was any concern or opposition to using the same list of issues for both watersheds, since both watersheds exhibit similar conditions and problem areas. There were no objections.

This led into a discussion of how to develop Goals, Objectives, and Indicators for the watershed plan. CDF presented and handed out a list of draft goals and objectives for the two watersheds based on the issues categories. The watershed stakeholders then divided up into four teams, each of which met to discuss and provide suggestions for modifying the draft list of goals and objectives. The revised draft of goals and objectives will be sent out prior to the next meeting for discussion.

6.0 NEXT MEETING(S)

Patty Werner announced that it may be necessary to have an additional meeting in May to catch up to the watershed planning schedule. The group agreed to see how far we get at the May 10th meeting before scheduling a second meeting in May.

The next meeting was scheduled for Thursday, May 10, 2007. The meeting will be held in the evening, and a location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

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April 12, 2007 Meeting Attendees

(NAME OF ATTENDEE)	(REPRESENTING)	(WATERSHED)
Robert Cade	North Shore Sanitary District	Both
Nick Huber	Lake County Forest Preserve District	Both
Paul Kakuris	Illinois Dunesland Preservation Society	Both
Jeffrey Koziel	Land Conservancy of Lake County	Dead
Adrienne Orr	Lake County Health Dept.	Both
Chip Parrott	Village of Beach Park	Dead
Susie Schreiber	Waukegan Harbor CAG	Dead
Jim Stanczak	Waukegan Port District Waukegan Airport	Dead
Rachel Foerster	Self	Dead
Joe Hughes	Self/Bull Creek Stakeholders Association	Dead
Curtis Mitzelfelt	Self	Kellogg
Richard Vanderhoef	Self	Dead
Calvin & Lavonne Wilcox	Selves	Dead
Judith Wilkes	Self	Dead
Jason Navota	Conservation Design Forum	Project Team
Tom Price	Conservation Design Forum	Project Team
Crissy Mehle	Lake County Stormwater Management Commission	Project Team
Mike Prusila	Lake County Stormwater Management Commission	Project Team
Rasto Vrazda	Lake County Stormwater Management Commission	Project Team
Patty Werner	Lake County Stormwater Management Commission	Project Team
Tony Wolff	Lake County Stormwater Management Commission	Project Team

KELLOGG CREEK/DEAD RIVER 8th WATERSHED PLANNING MEETING May 17, 2007, 6:30-8:30PM

Zion-Benton Public Library

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS

Patty Werner from the Lake County Stormwater Management Commission (SMC) delivered a welcome and introduction of the project team: Patty Werner, Tony Wolff, Crissy Mehle, and Mike Prusila from SMC; Jason Navota and Tom Price from Conservation Design Forum (CDF); and Erin Maloney from MWH. CDF is under contract to SMC for completing the Kellogg Creek and Dead River watershed plans. CDF will be assisted by MWH. Jason Navota will be the point of contact for CDF. The attendees introduced themselves and who they were representing. An attendance list is attached.

Announcements: Patty Werner announced that IDNR was in the watershed on May 10 for fish sampling in Illinois Beach State Park and will return at the end of June. North Shore Sanitary District will begin quarterly chemical sampling on all tributaries to BSP. IEPA was sampling macroinvertebrates on Dead Dog Creek, Bull Creek, and Kellogg Creek on May 10 and 14.

2.0 APRIL MEETING FOLLOW-UP

Patty Werner asked for comments on the draft summary from last meeting. The attendees provided no comments, so the meeting report was accepted by the group as presented.

3.0 EDUCATION AND OUTREACH

SMC is scheduled to present for the Rotary Club and will continue to pursue a presentation for the Garden Club. At the next Watershed Planning meeting there will be a brief presentation on conservation easements and tax incentives.

4.0 WATERSHED ASSESSMENT RESULTS (CONT.)

Tony and Crissy of SMC presented results from the flood studies and flood risk assessments for Kellogg Creek and the Dead River. Tony stressed that the studies are still draft and are under review.

Erin from MWH presented results from the Lake County Gardens flooding assessment.

CDF presented updated results for the detention basin inventory; regional and depressional storage areas; problem hydraulic structures, discharge points, and other areas; Flood Problem Area Inventory and IDOT flood report sites; trails and greenways. CDF then presented the revised results of the Green Infrastructure Prioritization mapping to reflect comments from the April meeting.

Patty asked if there were any comments about additional flooding areas in these watersheds. Additional flooding was not mentioned, but two problem sites were indicated: significant erosion on Dead Dog Creek near Novotny Park, and debris dumping along Bull Creek near Beach Road and North Ave. Both locations were noted by CDF.

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The presentations will be posted on the SMC Web site (<http://www.co.lake.il.us/smc>).

5.0 GOALS AND OBJECTIVES

Goals and objectives were not discussed.

6.0 NEXT MEETING(S)

Patty Werner announced that meeting attendance is better during afternoon time slots and asked how many of the attendees could not come to meetings in the 3:00 to 5:00 time slot. Only one attendee could not make it, but he stays informed through his neighbor, who does attend the meetings.

The next meeting was scheduled for Thursday, June 14, 2007. The meeting will be held in the afternoon, and a location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

KELLOGG CREEK/DEAD RIVER

9th WATERSHED PLANNING MEETING

June 21, 2007, 3:00-5:00PM

Beach Park Village Hall

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS & UPDATES

Patty Werner from the Lake County Stormwater Management Commission (SMC) delivered a welcome and introduction of guest speaker Tim Girmscheid from the Liberty Prairie Conservancy and the project team: Patty Werner, Tony Wolff, Chris Gaines, Rasto Vrazda, and Mike Prusila from SMC; and Jason Navota and Tom Price from Conservation Design Forum (CDF). The attendees introduced themselves and who they were representing. An attendance list is attached.

Announcements:

- ~ Patty Werner announced that the fish survey scheduled for June 26-27 has been rescheduled for August.
- ~ She also announced that as part of a continuing watershed outreach effort, SMC will distribute watershed maps to each municipality and possibly to community libraries for posting. It was suggested that the Beach Park Village Hall bulletin board would be a good spot to post a map.
- ~ SMC gave a presentation on the watershed planning effort at the last IL Beach Sunrise Rotary Club meeting.
- ~ The stream cleanup grant application submitted by SMC and the Alliance for the Great Lakes was not awarded due to a lack of federal funding for the grant program this year. We will continue to pursue other funding for a stream cleanup project.
- ~ Watershed planning in-progress signs will be added to the existing watershed signs that are posted on county roads. Lake County Department of Transportation will be adding these signs as their schedule allows.

2.0 MAY MEETING FOLLOW-UP

Patty Werner asked if there were any comments/changes needed on the draft meeting summary for the May meeting. The attendees provided no comments, so the meeting report was accepted by the group as presented.

3.0 BEST MANAGEMENT PRACTICE TOOL BOX

Conservation Easements

Tim Girmscheid of the Liberty Prairie Conservancy, a county-wide land trust, presented information about the Conservancy and conservation easements and tax incentives associated with conservation easements. Joe Hughes of the Bull Creek Stakeholders Association provided comments on that organization's conservation easement, which was dedicated for a stream restoration project. The Bull Creek Stakeholders Association holds an easement that ranges from 30-50 feet along the stream channel to protect the riparian buffer on 10 or 11 properties along Bull Creek.

Question: Is there a minimum acreage or area required for a conservation easement?

Response: There is no minimum area, and location and characteristics of the land are more important features than the area. A small area is more likely to be protected if it fits into a larger network of properties that have conservation value. 'Conservation value' isn't limited to rare natural features or ecosystems but can also include aesthetic / scenic value as well.

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Question: Could an area where a road is planned, or where a right-of-way easement exists, be protected with a conservation easement?

Response: Not unless the existing easement is vacated by the current holder of the easement.

Question: Could a conservation easement cover contaminated property?

Response: It is unlikely unless the property is cleaned up first.

Tim would be happy to answer any additional questions about the conservation easement potential for specific properties. He can be reached at tim@libertyprairie.org or 847-548-5989 X32.

Best Management Practice Tool Box

Tom Price from CDF presented the Best Management Practice Tool Box for the Kellogg Creek and Dead River Watershed Based Plans.

Question: Could I turn my ditch into a naturalized swale by letting it grow?

Response: Yes, but there may be some municipal codes, or maintenance practices, that govern native landscaping. Check with your municipality. Also, you don't want to let trees grow in the ditch if you do let it grow out.

Question: Runoff from commercial properties along Sheridan Road is carrying debris into the stream. What can be done?

Response: the landowners can use property management practices such as sweeping the parking lots and ground maintenance and/or install filtration BMPs on the edges of their property to capture debris running off the land.

Tim and Tom's presentations will be posted on the SMC Web site (<http://www.co.lake.il.us/smc>).

4.0 DISCUSSION

Meeting participants were divided into two groups for discussion and to fill out best management practice worksheets: one group discussed best management practices that landowners could implement, and the other discussed community-level best management practices. The groups discussed the following implementation elements: ease of implementation; term (when to implement); maintenance requirements; and technical and financial assistance requirements.

5.0 NEXT MEETING(S)

The next meeting will be held in the afternoon again since we are getting better attendance at the afternoon meetings. A location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

June 21, 2007 Meeting Attendees

(NAME OF ATTENDEE)	(REPRESENTING)	(WATERSHED)
Robert Cade	North Shore Sanitary District	Both
Emma Bialecki	Lake County Forest Preserve District	Both
Paul Kakuris	Illinois Dunesland Preservations Society	Both
Jeffrey Koziel	Land Conservancy of Lake County	Dead
Tom Chefalo	Lake County Planning, Bldg., & Dev.	Both
Frances Canonizado	Alliance for the Great Lakes	Both
Tim Girmscheid	Liberty Prairie Conservancy	Both
Chip Parrott	RHMG/Village of Beach Park	Dead
Gene Cross	Benton Twp./Village of Beach Park	Both
Jim Stanczak	Waukegan Regional Airport	Dead
Ronda Nissen	Self	Kellogg
Bruce Cliff	Self	Kellogg
Judith Wilkes	Self	Dead
Joe Hughes	Bull Creek Stakeholders Association	Dead
Jason Navota	Conservation Design Forum	Project Team
Tom Price	Conservation Design Forum	Project Team
Chris Gaynes	Lake County Stormwater Management Commission	Project Team
Mike Prusila	Lake County Stormwater Management Commission	Project Team
Patty Werner	Lake County Stormwater Management Commission	Project Team
Tony Wolff	Lake County Stormwater Management Commission	Project Team
Rasto Vrazda	Lake County Stormwater Management Commission	Project Team

appendix M - watershed planning committee meeting summaries

KELLOGG CREEK/DEAD RIVER 10th WATERSHED PLANNING MEETING July 19, 2007, 3:00-5:00PM

Zion City Hall

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS & UPDATES

Patty Werner from the Lake County Stormwater Management Commission (SMC) delivered a welcome and introduction of the project team: Patty Werner, Chris Gaines, and Mike Prusila from SMC; and Jason Navota and Tom Price from Conservation Design Forum (CDF). The attendees introduced themselves and who they were representing. An attendance list is attached.

Announcements:

- ~ Patty announced that a date has not yet been selected for the IDNR fish survey of Kellogg Creek / Dead River.

2.0 MAY MEETING FOLLOW-UP

Patty Werner asked if there were any comments/changes needed on the draft meeting summary for the June meeting. The attendees provided no comments, so the meeting report was accepted by the group as presented.

3.0 BEST MANAGEMENT PRACTICE TOOL BOX

Best Management Practice Tool Box Discussion (continued)

Meeting participants continued to fill out best management practice worksheets on landowner and community Best Management Practices. The groups discussed the following implementation elements: ease of implementation; term (when to implement); maintenance requirements; and technical and financial assistance requirements. The summary tables are included with these minutes.

4.0 GOALS & OBJECTIVES

Mike Prusila introduced the revised list of Issues, Goals and Objectives, which will be distributed to the group and discussed at the next meeting. The draft goals and objectives were provided as a handout.

5.0 NEXT MEETING(S)

The next meeting will be held in the evening or afternoon on Thursday August 9th. A location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

KELLOGG CREEK/DEAD RIVER

11th WATERSHED PLANNING MEETING

August 9, 2007, 3:00-5:00PM

Beach Park Village Hall

DRAFT MEETING SUMMARY

1.0 INTRODUCTIONS & ANNOUNCEMENTS & UPDATES

Patty Werner from the Lake County Stormwater Management Commission (SMC) delivered a welcome and introduction of the project team: Patty Werner, Chris Gaynes, Mike Prusila, and Rasto Vrazda from SMC; and Jason Navota and Eric Otto from Conservation Design Forum (CDF). The attendees introduced themselves and who they were representing. An attendance list is attached.

Patty Werner asked for input from the group regarding the distribution of email announcements to the group. Attendees appreciate being informed about watershed events and activities and would like to continue to receive them. SMC will forward all watershed-related emails that stakeholders request be distributed to the group.

There were no announcements.

2.0 JULY MEETING FOLLOW-UP

Patty Werner asked if there were any comments/changes needed on the draft meeting summary for the June meeting. The attendees provided no comments, so the meeting report was accepted by the group as presented.

Patty provided a summary of the watershed plan status: a draft plan will be submitted to SMC in early September; draft plan to stakeholders in October; final plan to all by end of November, 2007.

3.0 GOALS & OBJECTIVES

Mike Prusila introduced the revised list of Issues, Goals and Objectives, which were distributed to the group via email and as a handout. The group proceeded to review, discuss and suggest revisions to the Goals, Objectives, and Indicators for the following issues: Stream Restoration and Enhancement, Flood Risk and Flood Damage, and Watershed Hydrology. The discussion will continue at the next meeting.

4.0 NEXT MEETING(S)

The next meeting will be held in the afternoon on Thursday September 13th. A location will be determined and forwarded to everyone with a meeting announcement prior to the meeting.

appendix M - watershed planning committee meeting summaries

August 9, 2007 Meeting Attendees

(NAME OF ATTENDEE)	(REPRESENTING)	(WATERSHED)
Tom Chefalo	Lake County Planning, Bldg., & Dev.	Both
Chip Parrott	RHMG/Village of Beach Park	Dead
Bruce Mihelich	City of Zion	Both
Gene Gross	Village of Beach Park	Dead
LeRoy Bolt	Village of Beach Park	Dead
John Moore	City of Waukegan	Dead
Nick Huber	LCPD	Both
Don Wilson	Self	Both
Richard Vanderhoef	Self	Dead
Judith Wilkes	Self	Dead
Susie Schreiber	Waukegan CAG	Dead
Jeffrey Koziel	Land Conservancy of Lake County	Dead
Jason Navota	Conservation Design Forum	Project Team
Eric Otto	Conservation Design Forum	Project Team
Chris Gaynes	Lake County Stormwater Management Commission	Project Team
Mike Prusila	Lake County Stormwater Management Commission	Project Team
Patty Werner	Lake County Stormwater Management Commission	Project Team
Rasto Vrazda	Lake County Stormwater Management Commission	Project Team