From: Helmuth, Lisa D - DNR
To: "Kakuska, Michael"; Asplund, Tim - DNR; Bernthal, Thomas W - DNR
Cc: Rupiper, Mike
Bcc: Gayan, Sharon L - DNR
Subject: RE: Waubesa Wetlands Study Plan--Scope of Work/Budget
Date: Friday, November 18, 2016 9:33:00 AM

Dear Mike,

This looks nice, Mike. Let's make sure that we are all in agreement on generalized study elements and that we have a chance to strategize on deliverables and potential funding sources before we communicate to anyone. I'd like to get a feel for which items are most important and where we think the funds would come from, and make sure that we a) reach out to all the affected parties in DNR and b) we develop a brief admin briefing summary before we make any external contacts.

Maybe we can cover this at our check in next week. If not, then we should follow up after Thanksgiving before any communications go out. Thanks!

Thanks!
Lisa

Maybe we want to prioritize these and identify potential / possible actors for each area BEFORE we have any meeting, etc. and I also wonder if we shouldn't include this in our administrative briefing that Tim and I are working on for the contract. This is a big step and not sure how much detail Tim wants to bring to the briefing but we should have a flyer on what this is and what the plan will be for moving forward. Thanks!

L

The DNR has determined that, at a minimum, the study should:

- Evaluate groundwater flow and surface and groundwater interactions between streams, springs, groundwater, and Lake Waubesa, using the 2014 Dane County

  Regional Groundwater Model update developed by WGNHS, including the development of a new inset model for the Waubesa Wetlands, if warranted.
- Utilize updated rainfall data from NOAA Atlas 14 and include considerations for changing climatic conditions.
- Evaluate nutrient loadings, including nitrogen and phosphorus in both particulate and dissolved forms, in streams, springs, groundwater, and Lake Waubesa.
- Assess the health of the watershed's biological communities

(plants, wildlife, fish, invertebrates, etc.), and how changes in surface and ground water quantity, quality, and flow

may affect those biological communities.

- Evaluate current and potential future municipal water supply well placement.
- Provide recommendations for source water protection of areas that feed the perched fen located in the southwest portion of Lake Waubesa.
- Provide recommendations for management actions to mitigate the cone of depression resulting from current and future municipal water well pumping

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Lisa Helmuth
Phone: 608-266-7768
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Ex-plore Your Waters! http://dnr.wi.gov/water/

From: Kakuska, Michael [mailto:MikeK@CapitalAreaRPC.org]
Sent: Thursday, November 17, 2016 12:46 PM
To: Asplund, Tim - DNR; Bernthal, Thomas W - DNR
Cc: Helmuth, Lisa D - DNR; Rupiper, Mike
Subject: RE: Waubesa Wetlands Study Plan--Scope of Work/Budget

Gladly.

Thanks

From: Asplund, Tim - DNR [mailto:Tim.Asplund@wisconsin.gov]
Sent: Thursday, November 17, 2016 12:45 PM
To: Kakuska, Michael; Bernthal, Thomas W - DNR
Cc: Helmuth, Lisa D - DNR; Rupiper, Mike
Subject: RE: Waubesa Wetlands Study Plan--Scope of Work/Budget

Thanks Mike – can you please add TNC to your list? Steve Richter had been inquiring about this last spring.

Tim

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Tim Asplund
Phone: (608) 267-7602
tim.asplund@wisconsin.gov

From: Kakuska, Michael [mailto:MikeK@CapitalAreaRPC.org]
Sent: Thursday, November 17, 2016 12:34 PM
To: Asplund, Tim - DNR; Bernthal, Thomas W - DNR
Cc: Helmuth, Lisa D - DNR; Rupiper, Mike
Subject: RE: Waubesa Wetlands Study Plan--Scope of Work/Budget

Oh yes, and Tracy Hammes, Wisconsin Wetlands Association

From: Kakuska, Michael
Sent: Thursday, November 17, 2016 12:26 PM
To: 'Asplund, Tim - DNR'; Bernthal, Thomas W - DNR
Cc: Helmuth, Lisa D - DNR; Rupiper, Mike
Subject: RE: Waubesa Wetlands Study Plan--Scope of Work/Budget

Hi Tim,

Here's the plan, generally.

- Convene a technical steering committee (invited, yet to hear back from some of them):
    - Cal DeWitt, UW
    - Joy Zedler, UW
    - Mike Parsen, WGNHS
    - Rick Eilertson, C. Fitchburg
    - Jeremy Balousek, Dane Co.
    - Mike Sorge, DNR
    - Tom Bernthal, DNR
    - Rob Montgomery, MARS, C. Fitchburg
    - Erica Schmitz, T. Dunn
    - Todd Stuntebeck, USGS
    - Tracy Hammes, WWA

- Kick off meeting ~January, present available information
    - Existing resource/land use information
    - Groundwater considerations (changes existing to planned: water table levels, stream baseflows, biological response (ELOHA), Springs quality,

quantity, contributing area, etc.)
    - Surface water considerations (TP, DRP, N, monitoring, water quantity, etc.)
    - Waubesa wetlands assessment (functions, values, buffers, potential wetland restoration opportunities, etc.)

- 2nd meeting ~February, identify information gaps
    - Existing resource/land use information
    - Groundwater considerations
    - Surface water considerations
    - Wetland considerations

- 3rd meeting ~April, develop scope of work/budget (depending on findings/gaps in meetings 1 and 2)

- 4th meeting ~May, refine scope of work/budget

- 5th meeting ~June, finalize scope of work budget

If you have any comments or suggestions of people we might have missed please let me know. Overall, I think it will be a pretty good group/collaboration. We wanted to focus primarily on the staff/technical level, at least initially, with opportunities to inform higher ups as we progress.

Mike

From: Asplund, Tim - DNR [mailto:Tim.Asplund@wisconsin.gov]
Sent: Thursday, November 17, 2016 11:55 AM
To: Bernthal, Thomas W - DNR; Kakuska, Michael
Cc: Helmuth, Lisa D - DNR; Rupiper, Mike
Subject: RE: Waubesa Wetlands Study Plan--Scope of Work/Budget

Hi Mike –

I hadn't realized you were moving ahead on this (but it is good that you are!). Can you let us know who you are reaching out to and give us more detail on how you envision this proceeding? We need to ensure we have right people involved from DNR as well.

Thanks!

Tim

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Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Tim Asplund
Phone: (608) 267-7602
tim.asplund@wisconsin.gov

From: Bernthal, Thomas W - DNR
Sent: Wednesday, November 16, 2016 5:11 PM
To: Kakuska, Michael
Cc: Asplund, Tim - DNR
Subject: RE: Waubesa Wetlands Study Plan--Scope of Work/Budget

I am available subject to Tim's approval.

From: Kakuska, Michael [mailto:MikeK@CapitalAreaRPC.org]
Sent: Wednesday, November 16, 2016 11:14 AM
To: Bernthal, Thomas W - DNR
Subject: Waubesa Wetlands Study Plan--Scope of Work/Budget

Hi Tom:

As you are probably aware, as part of their approval of the Northeast Neighborhood Urban Service Area amendment in the City of Fitchburg, the DNR committed to collaborate with other interested and affected parties to conduct a comprehensive study of the watershed upstream of the Waubesa Wetlands within 3 years. The DNR has asked the Capital Area Regional Planning Commission to begin this process, as part of our water quality planning contract with the DNR, by organizing a steering committee to develop a detailed plan and budget for this study.

We are inviting you to serve on the steering committee to help guide this effort. Invited participants include representatives from the UW, WGNHS, DNR, USGS, Wisconsin Wetlands Association, Dane County, Town of Dunn, City of Fitchburg, and the Regional Planning Commission. We expect to have 3 or 4 meetings between now and June to assess existing resource information, identify gaps in our information, and develop a scope of work and budget for a study to address those gaps.

The DNR has determined that, at a minimum, the study should:

- Evaluate groundwater flow and surface and groundwater interactions between streams, springs, groundwater, and Lake Waubesa, using the 2014 Dane County

  Regional Groundwater Model update developed by WGNHS,

including the development of a new inset model for the Waubesa Wetlands, if warranted.

- Utilize updated rainfall data from NOAA Atlas 14 and include considerations for changing climatic conditions.
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  may affect those biological communities.
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- Provide recommendations for management actions to mitigate the cone of depression resulting from current and future municipal water well pumping

Before the initial meeting in mid-January, Regional Planning Commission staff will collect existing information pertinent to this effort for review and discussion by the steering committee.

If you are willing and able to participate on the steering committee please let me know. Your input and experience in this effort is very much welcomed and appreciated.

If you have any questions please do not hesitate to contact me. Thank you for your consideration.