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September 2, 2015

Ms. Lisa Helmuth  
Bureau of Watershed Management  
Wisconsin Department of Natural Resources  
101 South Webster Street, WT/3  
P.O. Box 7921  
Madison, WI 53707-7921

RE: 2015-2016 Capital Area Water Quality Planning Work Program

Dear Ms. Helmuth:

Enclosed is a proposed Water Quality Planning Work Program for the period of 7/1/15 through 6/30/16 for your review and comment in developing our 2015-2016 contract. The work program reflects a continuing water quality planning program directed primarily at the essential sewer service area, environmental corridor and point source facility planning needs, and urban stormwater management assistance. The total cost of the proposed 2015-2016 work program activities is estimated to be \$183,570 as shown in the budget table. We would propose to undertake these activities with a combined GPR/604b grant and local match. We have shown a grant amount of \$87,200 which represents a funding level of almost 50 percent. If federal and state funding constraints limit the availability of funds at this level, we will reduce activities, seek additional local match contributions, or complete distinct projects over two contract periods.

It is somewhat difficult for us to set priorities in the event that sufficient funding is not available to support all of the proposed activities. Work elements 3141, 3142, and 3143 are required continuing point source and service area water quality planning activities that we must perform as part of our continuing water quality planning work, and matching funding to support these activities is essential.

Work element 3141 will include adoption of the update of Appendix C of the Dane County Water Quality Plan (Point Source Inventory and Analysis) last updated in 2004, and needing to be updated based on 2010 Census data and new 2040 population projections for all service areas. This work had continued through 2014 and slowed due to delayed availability of population and employment projections for each service area. This work can now be completed with projected service area populations (expected to be adopted by the Commission at its September regular meeting). We expect to have a draft report by the end of 2015 with adoption by the end of the contract period.

Work element 3143 will include completing work on adopting an update of the Environmental Corridors Report (the policy and technical document establishing the guidelines for the

identification and delineation of environmentally sensitive areas, last updated in 1996) as an appendix of the Dane County Water Quality Plan. A draft report is expected to be completed by the end of 2015, with adoption by the end of the contract period. Additionally, we expect to devote substantial time working with WDNR staff to create the revised work flow for the service area boundary amendment process to meet the 90-day process requirement of the new law adopted by the legislature as part of the budget bill.

Work element 3155 will result in the adoption of an update of the technical appendix of the water quality plan that deals with groundwater protection. This effort was started in 2013 and we have been awaiting the availability of population projections to model the impacts of increased groundwater withdrawal to serve the newly projected populations. The plan update will use the Regional Hydrologic Model update by WGNHS and USGS, and uses the output of this new model to update the Groundwater Protection Plan. We expect to have a draft report by the end of 2015, with adoption by the end of the contract period.

Finally, based on the adopted updates of the technical appendixes of the *Dane County Water Quality Plan* work in 2015-2016 will include the start of the update of the Water Quality Plan Summary last updated in 2004. We expect to collaborate closely with WDNR staff in the update of the Summary, and do not expect to complete the draft update in this contract period. The draft of the Summary will be completed in the 2016-2017 contract period when it can be informed by the regional Values Study that is being undertaken by the Commission this year. The result of the Values Study will be used in developing a shared regional vision for growth and development, starting in 2016 and continuing through 2018. The visioning work will inform the update of the Water Quality Plan Summary.

Funding for work element 3151 is essential to support our continuing strategic role in stormwater management and work with developers and municipalities to elevate their stormwater standards and implementation to meet the challenges of TMDL targets and to ensure that new development does not worsen flooding in the region. This approach ensures the implementation of state-of-the art Best Management Practices that are responsive to the mitigation needs of affected resources, and incorporates these into new development based on site-specific requirements. Due to limitations in funding we will postpone our ongoing work on developing a framework for wetland protection planning under 3154. The framework will identify steps and information needed to develop a wetland protection plan, and we will return to that work in the 2016-2017 contract the WDNR wetlands program has completed its monitoring, metrics and assessment work and data inventory.

We hope that sufficient funding can be found to support our request. It is important to note that because of our request for only matching funds, every dollar in grant reduction requires elimination of two dollars in water quality planning activities. If reductions are unavoidable, we would welcome suggestions from you regarding reductions in our proposed work program.

The proposed 2015-2016 work program does not request funding support for other CARPC water quality planning activities which supplement or complement the WDNR contract activities. These include administering the cooperative water quality monitoring program (as part of the USGS Monitoring Partnership), providing routine technical assistance to municipalities in watershed and nonpoint source control planning, urban erosion and stormwater management, wetland and groundwater protection, lake management, and staff assistance for the Capital Area Regional Planning Commission to become the lead areawide water quality management agency for this designated region.

We appreciate your consideration of our proposed 2015-2016 work program and thank you for your continued assistance and support.

Please contact me if you need additional information or have questions.

Sincerely,

*Linda K. Feustone*

*for* Kamran Mesbah, PE, AICP  
Deputy Director/Director of Environmental Resources Planning

Enclosure

**Proposed 2015-2016 Work Program for the Grant Agreement Between the  
Wisconsin Department of Natural Resources and  
Capital Area Regional Planning Commission  
(July 1, 2015 – June 30, 2016)**

**Work Element 3141: Wastewater Systems Planning**

Work activities during the contract period include completing the draft update, and adoption of the update of the point source technical appendix of the *Water Quality Plan*; continuing work providing general assistance, data and population and flow forecasts for MMSD and other management agencies engaged in facilities planning or special wastewater studies; reviewing facilities plans and studies for MMSD and other communities for consistency with plans; participating in interagency meetings and advisory committees on wastewater facilities planning; reviewing and analyzing CMAR reports for wastewater treatment facilities; reviewing and commenting on WPDES permits; reviewing and commenting on consistency of MMSD annexations with plans; and conducting public meetings and hearings on point source *Water Quality Plan* revisions. Work effort is by the Division Director (1.5 person-month), Environmental Engineer (1.5 person-month).

**Products:** Adoption of the update of Appendix C of the *Water Quality Plan*, review comments on facilities plans, WPDES permits, and MMSD annexations; review of CMAR Reports; and special point source studies.

**CARPC Staff Effort and Costs:** 3 person months \$37,980

**Work Element 3142: Wastewater Systems Service**

2015-2016 work activities include review of all public and private sewer extensions (estimate 80/yr) for consistency with plans, service areas, and conditions of approval; participation in public meetings, hearings and committees related to point source issues; review of point source related legislation and administrative rule changes. Work effort is by the Environmental Engineer (1.5 person-months).

**Products:** Sewer extension reviews (estimate 120), review comments and hearing testimony relative to point source issues.

**CARPC Staff Effort and Costs:** 1.5 person months \$18,990

**Work Element 3143: Urban Service Area and Environmental Corridor Delineation**

2015-2016 work activities include revising and updating urban service area and environmental corridor delineations to reflect revised and updated population forecasts for all urban service areas, new or revised resource information, approved site plans and plats, public open space purchases, revised official maps and plans; preparing analysis reports, including the evaluation of impacts and mitigation measures, and conducting public hearings on all service area plan amendments and major changes to environmental corridors (estimate 10); providing support data to DNR for service area and environmental corridor revisions and environmental assessments. In addition, work will include designing and implementing a new process to

address new legislation that provides a 90-day decision-making window for urban service area amendments. Furthermore, a framework will be developed for better coordination with DNR program staff on specific specialty components of the plan updates including water quality assessments, groundwater report, wetland report, environmental corridor rules and delineations. This framework will include data integration including GIS file sharing and analysis between DCRPC datasets and DNR datafiles including the Surface Water Integrated Monitoring System, the Water Assessment Tracking and Electronic Reporting System, and the Water Condition Viewer. Work effort is by Environmental Engineer (2.0 person-months) and Division Director (1.0 person-month).

Work in 2015-2016 will also include completing a draft update of the Environmental Corridors Report (last updated in 1996) and adopting the Report as a technical and policy document that establishes the guidelines for the identification and delineation of environmental corridors in the region. This work effort is by the Division Director (1 person-month) and Environmental Engineer (1.0 person-month).

**Products:** Revised urban service area boundary and environmental corridor delineations, plan revisions, and adoption of the updated Environmental Corridors Report.

**CARPC Staff Effort and Costs:** 5.0 person months \$63,300

**Work Element 3151: Urban Nonpoint Source Management**

Work activities include reviewing stormwater management plans for new development for consistency with the conditions imposed by the *Dane County Water Quality Plan*. Additional activities include assisting urban units of government in developing and implementing detailed watershed plans and projects, assisting communities in implementing urban nonpoint source recommendations of the *Dane County Water Quality Plan*, incorporating urban nonpoint source recommendations into community land use and comprehensive plans, and holding technical stormwater webinars and forums on BMP design and implementation for municipal technical staff. Provide technical assistance to communities in reviewing site development stormwater plans for water quality impacts, and implementing WDNR and USEPA stormwater permit requirements. Work effort is by the Environmental Engineer (2.0 person-months) and Division Director (1.0 person-month).

**Products:** Data and review comments on watershed plans, projects, ordinances, stormwater plans, and site development plans for water quality impacts and mitigation measures.

**CARPC Staff Effort and Costs:** 3.0 person-months \$37,980

**Work Element 3155: Groundwater Protection Planning**

CARPC work activities in 2011-2012, 2012-2013, and 2013-2014 included updating the Regional Hydrologic Groundwater Model, a groundwater model which has helped the Commission to evaluate the impacts of development and groundwater withdrawal on stream baseflow volumes. The Wisconsin Geologic and Natural History Survey in cooperation with USGS is completed this update in August 2013 and the model was made available in February 2014. The new groundwater model provides updated and improved analysis of the regional groundwater system, allowing CARPC to draft an updated Appendix G (Groundwater Protection Plan) of the *Dane County Water quality Plan*. This technical appendix was last updated in 1999

based on the findings of the first generation Regional Hydrologic Groundwater Model. 2015-2016 work will involve using the 2040 population projections for each service area to evaluate the impacts of projected groundwater withdrawal, to complete the draft updated Appendix G, and to adopt it as part of the *Dane County Water Quality Plan*.

Work effort is by the Senior Environmental Planner (2.0 person-month).

**Products:** Completed update of Appendix G of the *Dane County Water Quality Plan*, evaluation of public water systems based on updated Regional Hydrologic Groundwater Model.

**CARPC Staff Effort and Costs:** 2.0 person-months \$25,320

| <b>Capital Area Regional Planning Commission<br/>                     2015-2016 Water Quality Planning Work Program Budget<br/>                     (July 1, 2015 – June 30, 2016)</b> |                           |            |                        |
|--|---------------------------|------------|------------------------|
| Work Element   | Total CARPC Person Months | Total Cost | GPR/604b Grant Request |
| 3141   | 3.0                       | \$ 37,980  | \$ 18,990              |
| 3142   | 1.5                       | 18,990     | 9,495                  |
| 3143   | 5.0                       | 63,300     | 31,650                 |
| 3151   | 3.0                       | 37,980     | 18,990                 |
| 3154   | 1.0                       | 12,660     | 6,330                  |
| 3155   | 2.0                       | 25,320     | 12,660                 |
| <b>Total</b>   | 15.0                      | \$ 183,570 | \$ 87,200              |