Memorandum

To: Programs Projects and Operations Subcommittee
From: Brian L. Henkel, Groundwater Management Engineer
Date: June 3, 2010
Re: Eastern Nebraska Water Resources Assessment

The District entered into an interlocal agreement with five other NRD's in 2007 to study the water resources of Eastern Nebraska. The Eastern Nebraska Water Resources Assessment (ENWRA) has contributed to the District's understanding of the availability and quality of groundwater and the hydrogeologic structure of the District. This understanding is the necessary foundation to making appropriate management decisions regarding the water resources of the District. The District recently approved a pilot groundwater flow model that directly utilizes hydrogeologic information gathered and processed through ENWRA. The District also funds a portion of the groundwater quality monitoring administered by ENWRA. The goals of ENWRA to develop a geologic framework and water budget for the glaciated portion of Eastern Nebraska are an indispensable component of our continued management of the groundwater resources. Included with this memorandum is a memorandum from Dana Divine, ENWRA project Coordinator, a summary of the ENWRA long range plan and amendment #3 to the interlocal agreement.

- Staff recommends that the subcommittee recommend to the Board of Directors that the General Manager be authorized to approve amendment #3 to the interlocal cooperative agreement funding ENWRA subject to changes deemed necessary by the General Manager and approval as to form by District Legal Council
Memorandum

Date: June 8, 2010

To: Papio-Missouri River NRD Board of Directors

From: Dana Divine, ENWRA Project Coordinator

Subject: Amendment to the ENWRA Interlocal Agreement

The current term of the ENWRA Interlocal agreement is 5 years, ending July 1, 2012. The ENWRA Technical Committee wishes to extend the term of this agreement an additional 5 years to July 1, 2017. The purpose of extending the agreement now is to provide for the application of grants, many of which allow 3-year funding cycles.

The attached Amendment #3 is the legal counsel-approved language that would be used to extend the agreement. The annual contributions listed in the table are the same as the current annual contributions.

Note that Amendment #3 also provides for the exchange of financial responsibilities from Lower Platte North to Lower Platte South. This change would simplify accounting, which is complicated somewhat because the Project Coordinator is housed at LPS. LPS often pays a significant number of invoices, which then need to be reimbursed by LPN. Additionally, the amount of communication necessary between the Coordinator who makes purchases and the Lower Platte North staff who pay for purchases is difficult to continually maintain.

The Technical Committee has developed a Long Range Plan that enumerates the ENWRA objectives, potential projects, and potential costs for the next ten years. A summary of this plan is attached. The full plan is available from Dana upon request. The six General Managers have reviewed and approved the plan. This plan will guide the general course ENWRA takes, however contracts, grant applications, and budgets will still require board action from the appropriate Board of Directors.
Summary of ENWRA Long Range Plan

Goal
The ultimate goal of ENWRA is to develop a three-dimensional geologic framework and water budget for all of eastern Nebraska. This framework and water budget will include the glacial till uplands, alluvial valleys, and their intersections.

Specific Objectives
Identify the location and volume of aquifers
Estimate recharge rates
Assess potential connections between groundwater and surface water
Estimate water budgets
Characterize natural and anthropogenic water quality concerns
Assemble, analyze and distribute data
Develop a variety of partners and funding sources
Continue to assess the applicability of new technology

Primary Projects
Maintain and add monitoring well locations
Maintain and add recharge stations
Map and measure streambed conductance
Refine Hydrologically Connected Areas on existing maps using new data

Secondary Projects
Geophysical survey of Niobrara chalk
Geophysical survey of Brock-Talmage area
Geophysical survey of Phase III nitrate area in Pierce/Knox/Madison counties (& Bazile triangle)
Geophysical survey of shallow saline groundwater
Geophysical survey of Shell Creek, Logan Creek, and Platte River uplands areas
INTERLOCAL COOPERATIVE AGREEMENT

BETWEEN THE

LEWIS & CLARK NATURAL RESOURCES DISTRICT
LOWER ELKHORN NATURAL RESOURCES DISTRICT
LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT
LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT
NEMAH NATURAL RESOURCES DISTRICT and
PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT

AMENDMENT #3

THIS AMENDMENT #3 is made and entered into by and between the above natural resources
district this ___ day of ______, 2010. The natural resources districts are hereinafter referred to
collectively as the Districts. This Amendment supplements the original agreement effective as of
January 18, 2007, and Amendments #1 and #2 effective as of December 17, 2007.

Modification #1: Article II, Section 2.04, original agreement

The term of this Interlocal Agreement is hereby extended until June 30, 2017, by mutual
agreement of the Districts.

Modification #2: Article V, Sections 5.02-5.03, original agreement

These sections shall be changed to read:

The Districts shall contribute funding for the project for the entire term of the agreement which
now terminates on June 30, 2017, unless further extended by mutual agreement of all Districts. The
Districts agree that funding for FY 2013 through FY 2017 will be as follows:
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Modification #3: Article IV, Sections 4.01-4.05, original agreement

These sections shall be changed to read:

LPSN RD shall be responsible for applying for all grants and the administration of all grant funds which are received and shall enter into all contracts in its name for the Project and all other work set forth in this Agreement and the work plan. LPSRD shall require each Contractor to provide adequate liability insurance for bodily injury and property damage sustained as a result of each Contractor’s performance of its obligations and responsibilities under any contract related to the Project.

The Technical Committee shall annually approve a work plan and budget. This work plan and budget will be described in applications for grant funding. Approval of grant application submissions by the LPSNRD will serve as approval of the work plan and budget.

Transfer of financial responsibility from LPNNRD to LPSN RD will occur on July 1, 2010. Transfer of existing ENWRA funds will occur within 60 days of this date.

Modification #4, Article C., Amendment #2

Subsequent to July 1, 2010 LPSN RD will be responsible for paying out of the funds contributed by the Districts the amounts set forth in Amendment #1 for the salary and benefits of the Coordinator.
LEWIS AND CLARK NATURAL RESOURCES DISTRICT

BY: 

DATE: 

LOWER ELKHORN NATURAL RESOURCES DISTRICT

BY: 

DATE: 

LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

BY: 

DATE: 

LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT

BY: 

DATE: 

NEMAHNA NATURAL RESOURCES DISTRICT

BY: 

DATE: 

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT

BY: 

DATE: 