MEMORANDUM

TO: Programs, Projects and Operations Subcommittee

FROM: Amanda Grint, Water Resources Engineer

SUBJECT: Renewal of USGS Maintenance Agreement for Papio Floodwarning System Gages

DATE: October 4, 2018

In 1993, the District worked with the US Army Corps of Engineers (USACE) to install a flood warning system for the Papillion Creek Watershed. The system was upgraded in 2012, and consists of 22 gage stations. Five stations report rain data and the remaining 17 stations report rain and stream stage data. The attached map shows the location of the gages. The data is reported real time and is available to the public through the National Weather Service (NWS) and USGS web sites. The address of the NWS website is http://water.weather.gov/ahps2/index.php?wfo=oax. An agreement is in place with Douglas County, Sarpy County, Washington County and the City of Omaha to share the cost of the system.

The attached joint funding agreement for consideration is an annual renewal of the maintenance contract with the USGS for 2019 in the total amount of $140,965. The USGS will cost share $16,685 through their Cooperative Matching Funds and $19,465 through the Groundwater and Streamflow Information Program. The District cost share totals $124,280, for operation and maintenance of the gages. Table 1 of the agreement provides a cost breakdown and includes the gage type and data collected for each site. In comparison, the District cost share for operation and maintenance in 2017 was $123,040.

The quality data provided by USGS is valuable to NWS to improve forecasting and issuance of flood warnings in the Papio watershed and to the District for operation and monitoring of the Papio flood control systems. Each year the USGS works to record high flows and provide the District and its partners improved data for rating curves (flow vs. stage) at each site.

Management recommends that the Subcommittee recommend to the Board that the General Manager be authorized to execute the proposed Joint Funding Agreement with the USGS in the amount of $124,280 in District funds for the operation of the District’s floodwarning system for 2019, subject to changes deemed necessary by the General Manager.
PAPILLION CREEK WATERSHED
Douglas, Sarpy, and Washington Counties, Nebraska

THE FLOOD CONTROL PLAN

Legend
• FLOOD WARNING GAGE

PAPILLION CREEK BASIN BOUNDARY

Douglas, Sarpy, and Washington Counties, Nebraska
John Winkler  
Papio-Missouri River Natural Resources District  
8901 South 154 Street  
Omaha, NE 68138

Dear Mr. Winkler:

Enclosed are two copies of Joint Funding Agreement No. 19RJFA00040 for the operation of one streamgage at Omaha Creek at Homer and 21 gages (9 stage/discharge/precipitation, 8 stage/precipitation, and 4 rain-only) in the Papillion Creek watershed, as listed in the enclosed summary of proposed funding (Table 1). The total amount of the agreement is $140,965; or $16,685 for U.S. Geological Survey (USGS) Cooperative Matching Funds, $19,465 provided by contributions from the USGS Groundwater and Streamflow Information Program (GWSIP), $124,280 for the Papio-Missouri River Natural Resources District (PMR NRD) for operation and maintenance of gages. Please sign one copy of the agreement and return it to this office as soon as possible. The second copy is for your records. Work cannot be continued until we receive the signed agreement.

Work performed with funds from this agreement will be conducted on a fixed price basis under the authority of statute 43 USC 36C. Billings will be rendered quarterly. The results of all work under this agreement will be available for publication by the U.S. Geological Survey.

For more information or any questions concerning this agreement, please contact Jason Lambrecht at 402-328-4124.

Sincerely,

[Signature]

Jason M. Lambrecht, Acting Director  
USGS Nebraska Water Science Center

3 Enclosures

DUNS No. 949286512
THIS AGREEMENT is entered into as of the October 1, 2018, by the U.S. GEOLOGICAL SURVEY, Nebraska Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation the operation of one streamgage at Omaha Creek at Homer and 21 gages (9 stage/discharge/precipitation, 8 stage/precipitation, and 4 rain-only) in the Papillon Creek watershed, as listed in the enclosed summary of proposed funding, herein called the program, The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of $0.00

(a) $16,685 by the party of the first part during the period October 1, 2018 to September 30, 2019

(b) $124,280 by the party of the second part during the period October 1, 2018 to September 30, 2019

(c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: $19,465

Description of the USGS regional/national program: Groundwater and Streamflow Information Program

(d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.

(e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (https://www2.usgs.gov/fsp/).
9. Billing for this agreement will be rendered quarterly. Invoices not paid within 60 days from the billing date will bear interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Jason Lambrecht
Hydrologic Data Section Chief
Address: 5231 South 19th
Lincoln, NE 68512
Telephone: (402) 328-4124
Fax: (402) 328-4101
Email: jmlambre@usgs.gov

USGS Billing Point of Contact

Name: Lisa Dietsch
Administrative Officer
Address: 5231 South 19th
Lincoln, NE 68512
Telephone: (402) 328-4116
Fax: (402) 328-4101
Email: ldietsch@usgs.gov

Papio- Missouri River Natural Resources District

Customer Technical Point of Contact

Name: Marlin Petermann
Assistant General Manager
Address: 8901 South 154th St
Omaha, NE 68138
Telephone: (402) 444-6222
Fax: Email: mpetermann@papionrd.org

Customer Billing Point of Contact

Name: Marlin Petermann
Assistant General Manager
Address: 8901 South 154th St
Omaha, NE 68138
Telephone: (402) 444-6222
Fax: Email: mpetermann@papionrd.org

U.S. Geological Survey
United States
Department of Interior

Signature

By: [Signature]
Date: 09/04/2018
Name: Jason M. Lambrecht
Title: Acting Director

Signature

By: [Signature]
Date: 
Name: 
Title:

Signature

By: [Signature]
Date: 
Name: 
Title:

Signature

By: [Signature]
Date: 
Name: 
Title:
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**Funding partner totals:** $10,665 $124,280 $19,465 $160,430

a USGS GWSIP funds used in place of CMF as match with PM NRD