

Agenda Item: 9.

## Memorandum

**To:** Programs, Projects and Operations Subcommittee  
**From:** Amanda Grint, Water Resources Engineer  
**Date:** December 6, 2011  
**Re:** Contract Renewal with USGS to maintain and monitor floodwarning system for 2013

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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 currently consists of 22 gage stations, 5 of which report rain data and the remaining 17 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 system equipment was upgraded in 2012 and the same year the USGS began maintenance and monitoring of the system through a contract approved by the Board in November 2011. 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 proposal is a renewal of the maintenance contract with the USGS for 2013. The USGS will cost share at the rates outlined in the proposal. This year's contract maintains the same level of service from USGS as in 2012; however, they have increased their contribution a small amount so that the District share is \$112,070. Last year's contract had a District contribution of \$114,950. In the upcoming years, the USGS will continue to look for additional funding to help reduce the District's share.

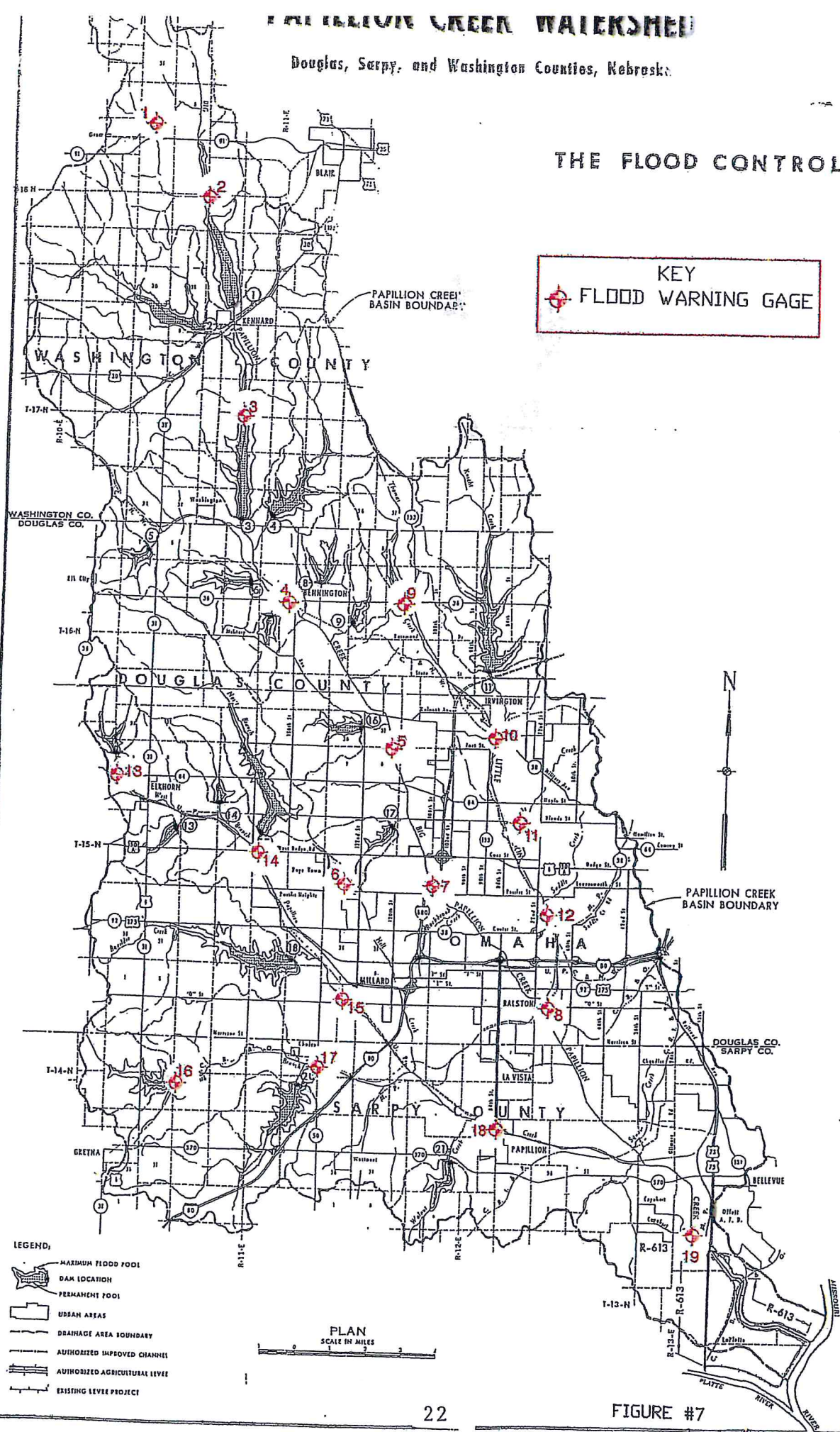
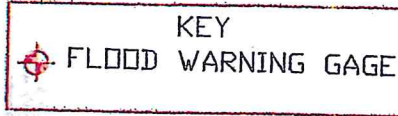
The USGS efforts throughout 2012 were impressive and provided PMRNRD staff a great level of confidence on the accuracy of readings and perhaps more importantly, provided the NWS staff with a level of confidence that is unprecedented in the history of the Papio floodwarning system. This in turn helps the NWS to improve the potential for forecasting in the Papio watershed. The PMRNRD, USGS, NWS continue to work together to further improve the system reporting.

**Management recommends that the Subcommittee recommend to the Board that the General Manager be authorized to execute a proposed contract with the USGS in the amount of \$112,070.00 for the operation of the District's floodwarning system.**

# PAPILLION CREEK WATERSHED

Douglas, Sarpy, and Washington Counties, Nebraska

## THE FLOOD CONTROL PLAN







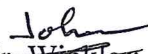
# United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
Water Resources Discipline  
Nebraska Water Science Center  
5231 South 19<sup>th</sup> Street  
Lincoln, NE 68512-1271

OCT 15 2012

October 9, 2012

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. 13EMNE000190 for the operation of one streamgage at Omaha Creek at Homer and 22 gages (9 stage/discharge/precipitation, 8 stage/precipitation/rating development, and 5 rain-only) in the Papillion Creek watershed as listed in the enclosed summary of proposed funding. The total amount of the agreement for Cooperative Water program funding is \$127,035 or \$14,965 for the U.S. Geological Survey and \$112,070 for the Papio-Missouri River Natural Resources District. Funds from the National Streamflow Information Program (NSIP), which are not included in the above amounts, have been used as a supplement to or in place of funds from the Cooperative Water Program. Please sign one copy of the agreement and return it to this office by October 26, 2012. The second copy is for your records. Work cannot be continued until we receive the signed agreement.

This year's agreement represents a fundamental change in the allocation of the USGS Cooperative Water Program (CWP) funds by the Nebraska Water Science Center (NEWSC). For a number of years, the USGS and the Papio-Missouri River NRD have entered into a CWP JFA for stream gaging where the USGS has contributed a percentage of Federal funding for particular gages. A portion (about 25%) of the USGS matching funding has always gone to help fund support benefits and services provided by the USGS at the national level.

Beginning in Federal fiscal year 2013, the USGS will no longer include this portion of funding in our annual JFA, and the listed USGS match will reflect only those CWP funds directly associated with the work at the NEWSC level. On paper, this change will decrease the NEWSC contribution and the apparent total cost for a particular gage. However, there is no decrease in the actual overall expense for the USGS to operate the gage and provide the critical support benefits and services-such as database management, data delivery, quality assurance and control, technical training, and science support-to ensure high-quality data. These benefits and services will continue to be provided by the USGS, but through other accounting measures not reflected in the JFA. Equally important, no additional costs will be incurred by the Papio-Missouri River NRD as a result of this change, except those associated with inflationary adjustments.

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.

Please contact Jason Lambrecht at 402-328-4124 if you have any questions concerning this agreement.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert B. Swanson", with a long horizontal flourish extending to the right.

Robert B. Swanson, Director  
USGS Nebraska Water Science Center

3 Enclosures

DUNS No. 949286512



Table 1. Summary of proposed funding for operation of stream gaging and rain stations supported by the Papio-Missouri River Natural Resources District and other partners for period October 1, 2012 – September 30, 2013.

[CR, continuous-record; SR, seasonal-record (Mar. 1-Oct. 31); CSG, crest-stage gage; CWP, Cooperative Water Program; PMR NRD, Papio-Missouri River Natural Resources District; NSIP, National Streamflow Information Program; RT, real-time (satellite telemetry); USGS, U.S. Geological Survey; Q, Discharge; ST, Stage; PR, Rain; RD, Stage-Discharge Rating Development]

USGS Station number	PMR NRD Station Number	Station name					Gage type(s)	Data to be published	Footnote
			USGS CWP	PMR NRD	USGS NSIP	Total			
06601000		Omaha Creek at Homer	\$0	\$8,065	\$6,135	\$14,200	RT CR - 12 month: Q, ST	Annual daily Q and ST for Oct. 1-Sept. 30.	a
413403096135001	1	Rain gage near Orum	\$255	\$1,225		\$1,480	RT SR - 8 month (Mar. 1 - Oct. 31): PR	Precipitation data collected, not published.	
06610705	2	Big Papillion Creek near Blair	\$680	\$3,380		\$4,060	RT SR - 8 month (Mar. 1 - Oct. 31): ST, PR, RD	ST for Mar. 1 - Oct. 31. Rain data collected, not published. Three measurements of discharge for rating development.	
06610710	3	Big Papillion Creek near Kennard	\$680	\$3,380		\$4,060	RT SR - 8 month (Mar. 1 - Oct. 31): ST, PR, RD	ST for Mar. 1 - Oct. 31. Rain data collected, not published. Three measurements of discharge for rating development.	
06610720	4	Big Papillion Creek near Bennington	\$1,650	\$8,190		\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	
06610732	5	Big Papillion Creek at Fort Street at Omaha	\$0	\$5,560	\$4,280	\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	a
411504096071601	6	Rain Gage at Boys Town at Omaha	\$255	\$1,225		\$1,480	RT SR - 8 month (Mar. 1 - Oct. 31): PR	Precipitation data collected, not published.	
06610740	7	Big Papillion Creek at Pacific St at Omaha	\$680	\$3,380		\$4,060	RT SR - 8 month (Mar. 1 - Oct. 31): ST, PR, RD	ST for Mar. 1 - Oct. 31. Rain data collected, not published. Three measurements of discharge for rating development.	
06610742	9	Thomas Creek near Bennington	\$680	\$3,380		\$4,060	RT SR - 8 month (Mar. 1 - Oct. 31): ST, PR, RD	ST for Mar. 1 - Oct. 31. Rain data collected, not published. Three measurements of discharge for rating development.	
06610750	10	Little Papillion Creek near Irvington	\$0	\$8,110	\$1,730	\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	a
06610760	11	Cole Creek at Blondo Street at Omaha	\$680	\$3,380		\$4,060	RT SR - 8 month (Mar. 1 - Oct. 31): ST, PR, RD	ST for Mar. 1 - Oct. 31. Rain data collected, not published. Three measurements of discharge for rating development.	
06610765	12	Little Papillion Creek at Ak-Sar-Ben at Omaha	\$1,650	\$8,190		\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	
06610770	8	Big Papillion Creek at Q Street at Omaha	\$1,650	\$8,190		\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	
06610773	13	West Papillion Creek at Elkhorn	\$680	\$3,380		\$4,060	RT SR - 8 month (Mar. 1 - Oct. 31): ST, PR, RD	ST for Mar. 1 - Oct. 31. Rain data collected, not published. Three measurements of discharge for rating development.	
06610780	14	West Papillion Creek at Pacific St at Omaha	\$680	\$3,380		\$4,060	RT SR - 8 month (Mar. 1 - Oct. 31): ST, PR, RD	ST for Mar. 1 - Oct. 31. Rain data collected, not published. Three measurements of discharge for rating development.	
06610785	15	West Papillion Creek at Millard	\$1,650	\$8,190		\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	
06610786	16	South Papillion Creek near Gretna	\$680	\$3,380		\$4,060	RT SR - 8 month (Mar. 1 - Oct. 31): ST, PR, RD	ST for Mar. 1 - Oct. 31. Rain data collected, not published. Three measurements of discharge for rating development.	
06610788	17	South Papillion Creek at Chalco	\$1,650	\$8,190		\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	
06610793	18	(West) Papillion Creek at Papillion	\$0	\$8,110	\$1,730	\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	a
06610795	19	Papillion Creek at Fort Crook	\$0	\$8,110	\$1,730	\$9,840	RT SR - 8 month (Mar. 1 - Oct. 31): Q, ST, PR	Daily Q and ST for Mar. 1 - Oct. 31. Rain data collected, not published.	a
411232095584201	20	Rain Gage at Hitchcock Park at Omaha	\$255	\$1,225		\$1,480	RT SR - 8 month (Mar. 1 - Oct. 31): PR	Precipitation data collected, not published.	
411701095570601	21	Rain Gage at city Maintenance Shop at Omaha	\$255	\$1,225		\$1,480	RT SR - 8 month (Mar. 1 - Oct. 31): PR	Precipitation data collected, not published.	
411857095545301	22	Rain Gage at Eppley fire Station at Omaha	\$255	\$1,225		\$1,480	RT SR - 8 month (Mar. 1 - Oct. 31): PR	Precipitation data collected, not published.	
Funding partner totals			\$14,965	\$112,070	\$15,605	\$142,640			

a USGS NSIP funds used in place of CWP funds as match with PM NRD

Form 9-1366  
(Oct. 2005)

**U.S. Department of the  
Interior  
U.S. Geological Survey  
Joint Funding Agreement  
FOR  
WATER RESOURCES INVESTIGATIONS**

Customer #:	6000000134
Agreement #:	13EMNE000190
Project #:	NR009R9
TIN #:	47-0542469
Fixed Cost Agreement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

THIS AGREEMENT is entered into as of the 1<sup>st</sup> day of **October 2012**, by the **U.S. GEOLOGICAL SURVEY, 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 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 22 gages (9 stage/discharge/precipitation, 8 stage/precipitation/rating development, and 5 rain-only) in the Papillion Creek watershed**, 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) includes In-Kind Services in the amount of \$0.

by the party of the first part during the period

(a) **\$14,965**                      **October 1, 2012**    to    **September 30, 2013**

by the party of the second part during the period

(b) **\$112,070**                      **October 1, 2012**    to    **September 30, 2013**

- (c) 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.
- (d) 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.



Form 9-1366  
continuedU.S. Department of the Interior  
U.S. Geological Survey  
Joint Funding AgreementCustomer #: 6000000134  
Agreement #: 13EMNE000190  
Project #: NR009R9  
TIN #: 47-0542469

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 costs, 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.
9. USGS will issue billings utilizing Department of the Interior Bill for Collection (form DI-1040). Billing documents are to be rendered quarterly. Payments of bills are due within 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30 day period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-212222, August 23, 1983).

U.S. Geological Survey  
United States  
Department of the InteriorPapio-Missouri River Natural Resources  
DistrictUSGS Point of ContactName: Jason Lambrecht  
Address: 5231 South 19 St  
Lincoln, NE 68512  
  
Telephone: 402-328-4124  
Email: jmlambre@usgs.govCustomer Point of ContactName: Marlin Petermann  
Address: 8901 South 154 St  
Omaha, NE 68138  
  
Telephone: 402-444-6222  
Email: mpetermann@papiionrd.orgSignaturesBy Robert B. Swanson Date 10/12/12  
Name: Robert B. Swanson  
Title: NWSC DirectorSignaturesBy John Winkler Date 10/21/12  
Name: John Winkler  
Title: General managerBy \_\_\_\_\_ Date \_\_\_\_\_  
Name:  
Title:By \_\_\_\_\_ Date \_\_\_\_\_  
Name:  
Title: