

Memorandum

TO: Programs, Planning & Operations Subcommittee

SUBJECT: Village of Washington Request for Cost-Share on Water Supply Feasibility Study

DATE: January 6, 2010

FROM: Marlin Petermann & Dick Sklenar

The District's staff met on the above date with Kevin Propst, Chairman of the Village of Washington, and Dennis Wilson and Bill Glismann of HGM Assoc., to discuss the financial request (see attached letter) for a study to identify alternative water supply solutions for the residents of the Village of Washington. Each household/business in the Village has their own well and they are primarily experiencing water quality problems. Some water quality testing has already been done indicating bacteriological and nitrate infiltration (see attached). Also, staining of fixtures and clothing (high iron and manganese) is experienced. There are currently about 50 homes in the Village (see attached map of area.)

The proposed study, to be conducted by HGM Assoc., will entail looking at alternatives sources of a good drinking water supply. The alternatives to be studied will most likely include connection to the Metropolitan Utilities District (from 180th and Hwy 36), a new well field, hooking up to the community of Kennard, or an in-home reverse osmosis (RODI) water treatment system. Hooking up to the District's existing Washington County Rural Water #1 or #2 systems will not be looked at in the study (see attached November 30, 2009 letter from Douglas County Commissioner Clare Duda). This option would among other things promote the wrong type of growth in the wrong geographic area and would deplete the capacity of the rural water systems from the area they were meant to serve. The feasibility study will consider the items noted in Commissioner Duda's letter in evaluating each of the alternatives for water supply.

Dennis Wilson indicated that HGM Associates could provide a feasibility study to address those options indicated above for approximately \$10,000.00.

- **It is recommended by Management that the Subcommittee recommend to the Board of Directors that the District provide 50% cost-share assistance, not to exceed \$5,000, toward an alternative water supply feasibility study for the Village of Washington.**

John Winkler, Executive Director

January 4, 2010

Papio-Missouri River Natural Resource District

8901 S. 154th Street

Omaha, NE 68138-3621

Dear Mr. Winkler,

As you are aware, the Village of Washington has conducted cursory research and some testing in connection with providing our residents with clean and safe drinking water. Our board has been seeking advice from HGM Associates for the past four years and the firm has provided some information to the board at no cost. However, after conducting testing recently on our wells used for drinking water, it has become evident that our village requires a more formal and detailed course of action.

Testing has revealed the presence of high levels of coliform and nitrates in the village's wells as well as potential problems with dissolved solids based on EPA standards. We are requesting that the Papio-Missouri River Natural Resource Board consider funding a study for the purpose of identifying potential solutions to these recurring problems.

I would like to request a meeting with your staff to discuss the potential scope and subsequent cost of hiring a consultant to perform this work for the Village of Washington Board. If this meets with your approval, I would be happy to work with Mr. Sklenar or Mr. Petermann of your office to schedule an appropriate time to discuss the matter. It is our hope that we could then take a formal request for funding to the board for their action. I would like to thank you in advance for your consideration of this request and look forward to hearing from you.

Sincerely yours,

A handwritten signature in cursive script, reading "Kevin Propst".

Kevin Propst

Village of Washington Board Chairman

09-022-2262

DATE REPORTED:
01/22/09DATE RECEIVED: 01/19/09
Page 1 of 1

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121

VILLAGE OF WASHINGTON
LOUIS KOLOGENSKI
1297 COUNTY ROAD P25
WASHINGTON NE 68068-4011

REPORT ON DOMESTIC WATER ANALYSIS
LAVONNE MOATS

21230

SAMPLE ID: 3-LAVONNE MOATS
LABORATORY NUMBER: 1529607

ANALYTICAL RESULTS

*Time of purity analysis 1/19/09 12:51

PARAMETER	SODIUM EPA 200.7 Na ppm	CALCIUM EPA 200.7 Ca ppm	MAGNESIUM EPA 200.7 Mg ppm	pH EPA 150.1	NITRATE EPA 200.0 NO ₃ -N ppm	SULFATE EPA 300.0 SO ₄ ppm	CONDUCTIVITY EPA 120.1 microhm/cm	TOTAL DISSOLVED SOLIDS TDS ppm	HARDNESS SM 23108 gr/gallon	TOTAL COLIFORM SM 9222B cfu/100 ml	IRON EPA 200.7 Fe ppm	MANGANESE EPA 200.7 Mn ppm	CHLORIDE EPA 300.0 Cl ppm	FLUORIDE EPA 200.0 F ppm
LEVEL FOUND	26.1	112	28.0	7.41	11.2	21	0.705	458	23.1	4	n.d.	n.d.	6	0.2
CAUTION LEVEL	100	80	30	6.5/9.0	10	400	0.75	500	20	1	0.3	0.05	200	4.0

INTERPRETATION

PARAMETER	SODIUM EPA 200.7 Na ppm	CALCIUM EPA 200.7 Ca ppm	MAGNESIUM EPA 200.7 Mg ppm	pH EPA 150.1	NITRATE EPA 200.0 NO ₃ -N ppm	SULFATE EPA 300.0 SO ₄ ppm	CONDUCTIVITY EPA 120.1 microhm/cm	TOTAL DISSOLVED SOLIDS TDS ppm	HARDNESS SM 23108 gr/gallon	TOTAL COLIFORM SM 9222B cfu/100 ml	IRON EPA 200.7 Fe ppm	MANGANESE EPA 200.7 Mn ppm	CHLORIDE EPA 300.0 Cl ppm	FLUORIDE EPA 200.0 F ppm
LEVELS														
GRAPHIC														
<div>He Apparent Problems</div> <div>External Problems</div> <div>Internal Problems</div> <div>Level Exceeds EPA Limits</div>														

ADDITIONAL PARAMETERS

PARAMETER METHOD														
LEVELS														
LEVEL FOUND														

The results shown on this report only refer to analysis of the sample(s) submitted.

For public information, Midwest Laboratories is not responsible for the use of this report and its contents in any way other than for the purpose for which it was prepared. The results shown on this report are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may they be used for any other purpose without our prior written authorization.

Rob Ferris
Client Service Representative
Midwest Laboratories Inc.



RECEIVED

DEC 02 2009

Environmental Services

BOARD OF COMMISSIONERS
CHRISTOPHER T. RODGERS, CHAIR

MARY ANN BORGESON

MICHAEL BOYLE

CLARE DUDA

KYLE HUTCHINGS

MARC KRAFT

PAM TUSA

Kathleen A. Kelley, Chief Administrative Officer

November 30, 2009

John Winkler
General Manager
Papio-Missouri River NRD
8901 S 154th St
Omaha, NE 68138-3733

RE: City of Washington water system

Dear Mr. Winkler:

It is my understanding that the Village of Washington has approached the Papio-Missouri River NRD about providing a rural water service to the Village. Although the village is within Washington County, a portion of their 1 mile zoning jurisdiction does extend into Douglas County and is contiguous to the Douglas County zoning jurisdiction.

In 2006 Douglas County updated its Comprehensive Land Use Development Plan, most notably to address a number of land use and infrastructure provision issues. The Plan calls for new development within the Papillion Creek watershed of Douglas County's jurisdiction to be at least at suburban densities of approximately 4 units per acre. The Plan also stresses the importance of the orderly provision of infrastructure, including but not limited to, potable water and sewer services. The City of Omaha and MUD have substantial existing infrastructure for sanitary sewer and water, respectively, and those systems can potentially be extended to serve other areas within the Papillion Creek watershed. The extension of those systems is a cost effective way to provide these necessary water and sanitary sewer services to new and existing development in the Papillion Creek watershed.

Having a dependable and safe potable water supply is obviously a high priority and Douglas County would be supportive of the Village of Washington's request for the NRD's assistance in providing such a water supply. It is however important that the proposed water supply system not encourage low density acreage development in Douglas County nor interfere with the orderly provision of municipal sewer and water services in the future.

Sincerely,

A handwritten signature in cursive script, reading "Clare Duda".

Clare Duda
Board of County Commissioners

Cc: Kathleen Kelley, CAO