

Phil Dwyer, C.E.T., DPA
Manager of Public Works

The Corporation of the Town of South Bruce Peninsula
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REPORT RE: COW March 7, 2011
REPORT NO: PW22-2011

SUBJECT: SECOND ANNUAL REPORT FOR AMABEL-SAUBLE WATER SYSTEM

RECOMMENDATION: THAT Council provide direction regarding a contract to complete the additional two (2) required reports for the Amabel-Sauble Water System.

BACKGROUND: Further to the Manager of Public Works' email correspondence of March 1, 2011 to members of Council (attached), the Manager of Public Works requires direction from Council as a result of Council Resolution Number R-054-2011. While this Resolution speaks only of activities with regard to the Sauble Sewers, the Manager of Public Works believes it prudent to bring this information forward to Council.

Attached for Council's information is a letter from Henderson Paddon & Associates Limited (Genivar) dated July 29, 2008. This letter was provided to Council by means of Public Works Report Number PW16-2008, Item 3. On August 11, 2008, the recommendation was 'That Council note the information'.

The first of the required reports was provided to Council and copied to the Federal Government on July 22, 2010. It is now time to start collecting data and analyzing it for the second report.

As the firm Genivar prepared the initial report, they have the background knowledge of the issues and will be able to complete the additional required reports with less effort. The cost of the first report was \$5,399.88 and the Manager of Public Works has been advised that reports two and three would cost less as outlined in the attached letter.

The alternative is to pick a firm from the recently developed professional roster list and have that firm review the background of the issues and prepare the required reports, which is expected to be more expensive.


The Manager of Public Works can find no evidence other than what is mentioned above and provided with this report that Council approved Genivar to be the author of the additional reports.

Accordingly, the Manager of Public Works requires Council direction on how to proceed to ensure the additional two (2) required reports for the Amabel-Sauble Water System are completed.

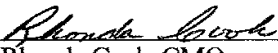
BUDGET IMPLICATIONS: The Manager of Public Works has provided sufficient funds (in the amount of \$5,000) in his 2011 budget for this report.

Respectfully submitted,

Approved by,



Phil Dwyer, C.E.T., DPA
Manager of Public Works



Rhonda Cook, CMO
CAO

Date: March 2, 2011

Date: Mar. 2, 2011

Manager of Public Works

From: Manager of Public Works <tsbppwmanager@bmts.com>
Sent: March-01-11 3:25 PM
To: Chris.Thomas@southbrucepeninsula.com; Janice Jackson;
Jim.Turner@southbrucepeninsula.com; John.Close@southbrucepeninsula.com;
kklages@bmts.com; Marilyn.Bowman@southbrucepeninsula.com; matt.standen@live.ca;
Paul McKenzie
Cc: 'Rhonda Cook'
Subject: RE: Water on Jewel Bridge

Janice and all members of Council

One of the conditions attached to the Federal Government's grant for the Sauble-Amabel water system is monitoring of the water levels and water quality be conducted for the initial 36 months of operation for the wells at the school.

The first annual report was received in July last year and the final report is due in 2012. The reason for this monitoring is Natural Resources Canada's concern regarding the short-term and long-term water quantity at the school wells.

I have spoken with the author of the report who **thought** some additional connections could be made on the school system. Presently the school treatment plant is producing potable water at 26% of its rated capacity. He made it very clear that the wells would not support adding connections to bring the production up to say 80%.

I would recommend no additional connections until after the final report is received.

I will be bringing additional information forward in a report to Council on the blending of water rates for our systems.

Phil

To: Manager of Public Works
Subject: Water on Jewel Bridge

Hi Phil;

I got a call from a resident on Jewel Bridge who asked me at what capacity the water line is at presently. He'd like to hook up to the system.

What can you tell me about that???
I have no idea about that stuff.

Thanks Phil
Janice

Amabel-Sauble



HENDERSON PADDON & ASSOCIATES LIMITED

CIVIL & ENVIRONMENTAL ENGINEERING CONSULTANTS

107095

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July 29, 2008

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Website: www.hp.on.ca

Mr. Brad McRoberts, P.Eng., Public Works Manager
Town of South Bruce Peninsula
Box 310
315 George Street
WIARTON, ON
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Re: Cost Estimate for Follow-up Monitoring Program
Upgrades to Amabel Sauble Water Works

Dear Mr. McRoberts:

As requested, this letter provides a scope of work and cost estimate for Henderson Paddon & Associates Limited to carry out a follow-up monitoring program in association with the operation of the upgraded Amabel Sauble water works currently under construction.

BACKGROUND

The requirements for a "Follow-up Program" were outlined in a July 4, 2008 letter from Mr. Bill Bunker of Industry Canada Infrastructure Operations to Mr. Malcolm McIntosh of the Town of South Bruce Peninsula. That letter indicated that a Follow-up Program is a mandatory part of the comprehensive study process. Industry Canada determined that the Follow-up Program will be limited to an assessment of the long term impacts of the project on groundwater quantity and quality. According to Industry Canada, the Follow-up Program for this project is to consist of three activities, summarized as follows:

1. Additional monitoring of existing wells, including the Fedy and Forbes observation wells, is to be conducted during the initial 36-month period of well operation to further assess the impacts from pumping wells PW1 and PW2. If significant drawdown problems are identified, then remedial measures are to be implemented to address the identified problems and additional monitoring is to be carried out.
2. The annual water consumption from each well, monthly water level variations, and the record of the lowest water level during summer use is to be reviewed by a professional hydrogeologist to assess the behaviour of the PW1, PW2 and Winburk water supply wells and the observation wells. A summary of each year's results and associated analysis is to be documented in a report, together with an assessment of the impacts relative to the findings of the Comprehensive Study Report.
3. Monitoring of chemical and microbiological parameters is to be carried out in accordance with MOE sampling requirements. If water quality problems are encountered over the operational phase of the project, then remedial measures are to be taken to address the identified problems.

The monitoring activities associated with the Follow-up Program are to be carried out by a qualified professional for a period of three years starting when the water system is commissioned. The results are to be summarized in annual reports.

107095

July 29, 2008

Mr. Brad McRoberts, P.Eng., Public Works Manager

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SCOPE OF WORK

It is our understanding that pressure transducers are to be installed in the PW1, PW2 and Winburk water supply wells as part of the current water system upgrades and that water level data for these wells will be recorded continuously. Fedy and Forbes observation wells shall be monitored and recorded monthly by way of a well water level measurement tape. Also, it is assumed that the routine water quality monitoring to be carried out on the raw and treated water supply by the operator, in accordance with MOE regulations for operation of a municipal water supply, will provide sufficient water quality data to respond to Item 3 above.

To address the requirements of the Follow-up Program, we propose to assimilate and review the groundwater level data for the PW1, PW2, Winburk, Fedy and Forbes wells and the water quality data for the PW1, PW2 and Winburk water supply wells on a quarterly basis. The results of the water level and groundwater quality monitoring will be summarized in an annual report that will also include an assessment of the effects on local groundwater resources from the operation of the water supply wells. The results of the monitoring will be compared to the anticipated effects from operation of the wells based on the findings of the 2003 HPA aquifer evaluation report. Recommendations for modifications to the operation of the water supply wells will be provided, as appropriate.

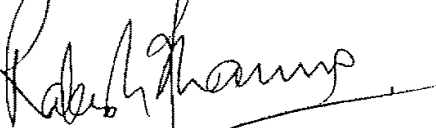
COST ESTIMATE

The cost for HPA to review the relevant data and prepare an annual report is estimated to be approximately \$4,800 per year average. It is anticipated that the cost will be somewhat higher in the first year, based on the initial level of effort, and lower in the subsequent two years.

We trust that this information meets your present requirements. If you have any questions or concerns in this regard, please contact the undersigned.

Very truly yours,

HENDERSON PADDON & ASSOCIATES LIMITED



Rakesh Sharma, P. Eng., M.A.Sc., Secretary
Designated Consulting Engineer
Senior Environmental Engineer
WBB/RS/wbb

cc: Mr. W. Brad Benson, P. Eng., Senior Hydrogeologist, Henderson Paddon & Associates Limited

HENDERSON PADDON