

McCormick Rankin Corporation
2655 North Sheridan Way
Mississauga, ON Canada L5K 2P8
Tel: 905.823.8500
Fax: 905.823.2669

cc: Hans
#4a

June 2, 2011

Dear Sir / Madam:

**RE: GTA West Corridor Planning and Environmental Assessment (EA) Study
Comments on the Draft Transportation Development Strategy Report**

As you are aware, MTO released the GTA West Draft Transportation Development Strategy Report on March 7, 2011 for a minimum 90-day review period. The Project Team would like to receive your comments by **June 30, 2011**. This timeline will also enable MTO to align the EA with the ongoing local planning and infrastructure plans of the municipalities within the GTA West study area. If you are unable to meet the above noted closing date for comments, please contact us immediately to discuss the matter.

We look forward to your input on the draft report. Written comments can be provided on the project website at <http://www.gta-west.com/comment-form.php> or can be sent to the contact below. Please also be advised that if you are unable to submit comments prior to our revising the Strategy report, there will continue to be on-going opportunities to provide input in the subsequent stages of the EA process.

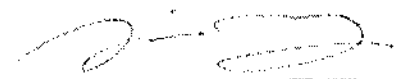
For those of you who have already provided comments, we thank you for your input and advise that we are currently reviewing your comments.

Contact:

Mr. Neil Ahmed, P. Eng., Consultant Project Manager
McCormick Rankin Corporation
2655 North Sheridan Way, Suite 300
Mississauga, ON L5K 2P8
Phone (toll-free): 1-877-522-6916
Fax: 905-823-8503
Email: project_team@gta-west.com

Thank you for your interest in the GTA West Corridor EA Study. We look forward to your comments.

Sincerely,



Mr. Jin Wang
Project Coordinator
Provincial Planning Office
Ontario Ministry of Transportation



Mr. Neil Ahmed, P. Eng.
Consultant Project Manager
McCormick Rankin Corporation



MCCORMICK RANKIN
CORPORATION
2000 ...

URS

AECOM



Brenda Law

#5a

From: Greg Scheifele [gwsefs@sympatico.ca]
Sent: Monday, May 30, 2011 10:01 AM
To: Brenda Law
Cc: 'Challinor,John,GUELPH,Corporate Affairs'; 'Pucovsky, Greg'; 'DeMarco,Don,GUELPH,NWNA-CA Corp Natural Resource Mgmt'; 'Slater, Carl (ENE)'; 'Timmerman, Art (MNR)'; sdenhoed@hardenv.com; jetienne@grandriver.ca
Subject: Nestlé Waters application for PTTW: 7-day pumping test workplan for the Gilmour Road Property

Brenda,

I have reviewed the proposed workplan for the proposed 7-day pumping test at Nestlé's Gilmour Road property. This pumping test will be preceded by a 72-hour test which will likely occur in June for the purpose of assessing water yield. Assuming the yield is satisfactory the 7-day test is scheduled for August-September 2011. I have no concerns with this workplan from an ecological perspective and I look forward to reviewing the monitoring results.

Regards,

Greg

From: Day, Sarah (ENE) [mailto:Sarah.Day@ontario.ca]
Sent: May-09-11 12:33 PM
To: DeMarco,Don,GUELPH,NWNA-CA Corp Natural Resource Mgmt; Slater, Carl (ENE); Belinda.Koblilk@ontario.ca; Quyum, Abdul (ENE); Timmerman, Art (MNR); Murray, Al (MNR); sdenhoed@hardenv.com; jetienne@grandriver.ca; awong@grandriver.ca; dave.belanger@guelph.ca; hwhitele@uoguelph.ca; gwsefs@sympatico.ca; Cynthia.mitton-wilkie@dfo-mpo.gc.ca; Jenie.Cooper@dfo-mpo.gc.ca
Cc: Challinor,John,GUELPH,Corporate Affairs; Fox,Gregory,Mecosta,Manufacturing; Anderson-Vincent,Arlene,STANWOOD,NWNA SC MW Springs; Pucovsky, Greg; Aldis Zandbergs; Ken Ursic
Subject: RE: Nestlé Waters application for PTTW: 7-day pumping test workplan

Hi Don,

The workplan refers to Figure 2 in the discussion of the discharge location. This figure was not attached. Cheers,

Sarah

From: DeMarco,Don,GUELPH,NWNA-CA Corp Natural Resource Mgmt [mailto:Don.DeMarco@waters.nestle.com]
Sent: May 6, 2011 11:20 AM
To: Slater, Carl (ENE); Belinda.Koblilk@ontario.ca; Quyum, Abdul (ENE); Day, Sarah (ENE); Timmerman, Art (MNR); Murray, Al (MNR); sdenhoed@hardenv.com; jetienne@grandriver.ca; awong@grandriver.ca; dave.belanger@guelph.ca; hwhitele@uoguelph.ca; gwsefs@sympatico.ca; Cynthia.mitton-wilkie@dfo-mpo.gc.ca; Jenie.Cooper@dfo-mpo.gc.ca
Cc: Challinor,John,GUELPH,Corporate Affairs; Fox,Gregory,Mecosta,Manufacturing; Anderson-Vincent,Arlene,STANWOOD,NWNA SC MW Springs; Pucovsky, Greg; Aldis Zandbergs; Ken Ursic
Subject: Nestlé Waters application for PTTW: 7-day pumping test workplan

Dear Technical Stakeholders:

5/30/2011

I'm pleased to provide you with a copy of the workplan for the proposed 7-day pumping test at Nestlé Water Canada's Gilmour Road property. This test is planned for August-September subject to internal review of results from the 3-day pumping test scheduled for June; and MOE approval. The PTTW application, workplan and supporting documents were couriered to the MOE office on St. Clair Avenue in Toronto this past Tuesday. Figures referenced in the workplan may be downloaded via FTP (download instructions below). Please let John or I know if you have any questions!

Many thanks,

Don T. DeMarco
Natural Resources Manager, Canada
Nestlé Waters Canada
101 Brock Road South
Guelph, Ontario N1H 6H9

Office: 519.767.6422
Cell: 519.803.4021
Fax: 519.565.1445
don.demarco@waters.nestle.com

FTP Site Info:
filetransfer.craworld.com
Username: nestle01
Password: bw22bm



Harden Environmental Services Ltd.
R.R. 1, Moffat, Ontario, L0P 1J0
Phone: (519) 826-0099 Fax: (519) 826-9099

#56

Groundwater Studies
Geochemistry
Phase I / II
Regional Flow Studies
Contaminant Investigations
OMB Hearings
Water Quality Sampling
Monitoring
Groundwater Protection
Studies
Groundwater Modelling
Groundwater Mapping

Our File: 0939

May 30, 2011

Township of Puslinch
R.R. 3
Guelph, ON
N1H 6H9

Attention: Brenda Law, A. M.C.T.
Clerk Treasurer

Dear Mrs. Law:

Re: Nestlé Waters Canada
46 Gilmour Road Supplemental Well

Nestlé Waters Canada (NWC) is intending on conducting a 7-day pumping test from a well located on their 46 Gilmour Road property. In 2009 and 2010 Harden Environmental, on behalf of the Township of Puslinch, was part of a review committee and commented on preliminary hydrogeology investigations and the proposed monitoring program for the pumping test.

The monitoring program presented in 2011 includes;

- More than 30 on-site monitoring locations including wells, surface water and mini-piezometers,
- Continuous monitoring of most locations during the test,
- Availability of monitoring to residents within 750 metres of the site,
- Monitoring of Meadows of Aberfoyle and Mini Lakes communal wells and
- In-stream monitoring of Mill Creek.

The purpose of the test is to characterize hydraulic properties of the deeper bedrock, evaluate the effectiveness of the Eramosa Member to isolate the impacts of pumping and to assess potential impacts to the natural environment and residential wells.

It is the intention of NWC to ultimately use a well on this site as a supplemental/standby well for their existing operation on Brock Road.

Once the pumping test has been completed the information obtained should be sufficient to evaluate long-term impacts on the surrounding area

Late last year, I received a call from a local resident, Mr. Sergio Corvinelli who had two questions regarding the proposed water taking from the Gilmour Road site;

- 1) What is the status of the Well Protection agreement being developed between the Township and Nestle Waters Canada?, and
- 2) Does the existing zoning by-law for 46 Gilmour Road allow for the taking of water for commercial purposes?

Given the renewed interest by NWC in taking water from Gilmour Road, answers to Mr. Corvinelli's questions should be provided.

Our concerns with the present taking from TW3-80 apply to the proposed taking from the Gilmour Road site. Specifically we remain concerned about;

1. The transfer of water from upper aquifers to lower aquifers via open wells. The wells servicing the Meadows of Aberfoyle subdivision are of this type and there are several others if not tens of others in Aberfoyle. These wells should be found via door to door surveys and the quality of water in the well determined by chemical testing.
2. Potential impacts to nearby residential wells
3. Cumulative impact of water taking in the Mill Creek subwatershed and
4. Potential direct impact to Mill Creek and its environs.

On November 4, 2009 we commented on the work plan for a similar pumping test proposed for the Gilmour Road site. Since then modifications to the test have been made. Below, we have repeated our November 2009 comments and our interpretation (in italics) of how the updated work plan has addressed the issue.

- Prior to the test, provide clear criteria through which the test results can be evaluated. For example, the threshold for a reduction in hydraulic gradient at a sensitive receptor such as a redd should be determined prior to the test. The length of the pumping test may need to be modified to accommodate this criterion should there be a downward trend in nearby groundwater levels. There should be clear thresholds for water level changes in wells, water level changes beneath wetlands and groundwater contributions to Aberfoyle Creek.

The response to David Webster¹ concludes that there is no tolerance for a decrease in hydraulic gradients. Thus the threshold for the test should be any measurable decrease in hydraulic gradient.

- Identify private wells within 1000 metres of the proposed taking and evaluate their potential for being impacted and monitor during testing accordingly.

We are satisfied that wells within 750 metres will be monitored.

- As part of PTTW, determine pump depths within private wells and drawdown in private wells during pumping cycle to ensure that there will be no interference with these wells during the test and in the future.

We are satisfied that this can be accomplished following the test and prior to the issuance of a final PTTW.

- Identify significant fish habitat areas (upwelling, redds etc.) and develop a strategy to measure the influence of water taking on these areas. This should involve a complete walk-through the creek, possibly with a temperature probe to identify upwelling areas. These areas should be instrumented with a mini-piezometer and monitored during the test to identify any potential interference.

Greg Scheifele has indicated his approval of the aquatic habitat monitoring.

- Provide accurate stream volume calculations and improve on “floating chip” method. The Marsh McBirney flow meter can work in less than five centimeters of water.

We understand that flow measurements will be obtained using a reliable method.

- Evaluate the influence of wells that are open from the Guelph Formation to the Gasport Formation. If possible, we recommend isolating the lower units with packers or by instrumenting the wells.

The testing will include monitoring of the Meadows of Aberfoyle wells. These wells are open from the Guelph to the Gasport. Several on-site monitors are dedicated to monitor distinct hydrostratigraphic units and thereby allow for the evaluation of the testing on various formations.

- Provide a list of wells to be monitored during the pumping test including method (manual vs. continuous) and frequency.

The list of wells is provided on Figures accompanying the up-dated work program.

¹ Unsigned and undated memo from Nestle Waters Canada consulting team (16 pages)

- I suggest instrumenting at least one of the deep wells such that the effectiveness of the Goat Island Formation as an aquitard can be evaluated rather than lumping the Goat Island with the Eramosa. Obviously the Goat Island Formation can also be permeable as this is where TW3-80 is completed. This type of completion may already be available within the existing monitoring network.

To my knowledge this has not been undertaken.

- In regards to potential interference with the communal wells at Meadows of Aberfoyle, Mini Lakes and Mill Creek residential areas, it may be advantageous to have those wells pumping at their maximum to determine the additive impact of the new well. Similarly, if there is the possibility of TW3-80 pumping at the same time (in the future) as the Gilmour Well, it should also be pumping during the test. I recommend a lengthy pre and post-test monitoring period to identify ambient conditions

Pumping of TW3-80, the Meadows of Aberfoyle wells and Mini-Lakes will not be restricted during the test therefore, the impact of simultaneous pumping will be observed. Pre and post test monitoring periods have been included in the program.

- Provide an evaluation of the benefits of the two production wells operating intermittently vs TW3-80 operating continuously. Provide an evaluation of optimal pumping schedule with the goal of minimizing existing and future drawdown.

We expect this type of evaluation for the final application of the PTTW.

Given the level of monitoring within residential wells, on-site monitors and in-stream monitors, we are satisfied that the test can be conducted safely and we look forward to evaluating the results.

Sincerely,

Harden Environmental Services Ltd.



Stan Denhoed, P.Eng., M.Sc.
Senior Hydrogeologist

Cc: Carl Slater – Ministry of the Environment
Don Demarco – Nestle Waters Canada
Greg Scheifele – GWS Ecological and Forestry Services

#100



351 Speedvale Avenue West
Guelph, Ontario N1H 1C6

TEL: 519-822-4031
FAX: 519-822-1220

C0544
May 25, 2011

Project No.: 10-8407

Corporation of the
County of Wellington
74 Woolwich Street
Guelph, Ontario
N1H 3T9

RECEIVED

MAY 30 2011

Attn: Mrs. Deborah Turchet
Secretary-Treasurer
Land Division Committee

Township of Puslinch

Dear Deborah:

Re: Proposed Severance
Part of Lot 8, Concession 2
Township of Puslinch, County of Wellington
(L.D.C. File No.: B87/10 – Croftholm Farms)

The Land Division Committee for the County of Wellington approved severance application B87/10, subject to 10 conditions being satisfied. The last date for the conditions of approval to be fulfilled is August 5th, 2011.

We are today in receipt of correspondence from not only the Grand River Conservation Authority, dated March 10th, 2011 (Liz Yerex, Resource Planner), but also a copy of a letter from the Township of Puslinch to the IBI Group, who are representing the interests of the Contractor that was involved with the Croftholm Pit at 6677 Wellington Road 34.

In the fall of 2010, we advised our client, as well as the contractor who is involved with the extraction of granular material from a portion of the property, that there was a requirement for the owner to receive Zoning Compliance to remove A-15 Zoning on the severed property.

The IBI Group (Jacqueline Zmija), a planner with the IBI Group, has been processing an Amendment to the Zoning By-law, which has been assigned Township File P2/11 in matters pertaining to satisfying Condition 8 of Land Division Committee B87/10.

May 25, 2011
Mrs. Deborah Turchet

Project No.: 10-8407
Page 2

The processing of this application has taken longer than was initially expected, mainly because of a requirement by the Grand River Conservation Authority to have a Natural Heritage/ Hazard Study completed to confirm the limit of the Natural Environment Zone for the property.

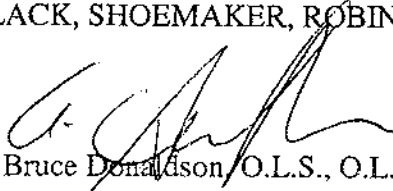
When taking into account the fact that this study has not yet been completed to the satisfaction of the Grand River Conservation Authority, and that there will be a requirement for a Public Meeting, we respectfully request that the conditions of approval, be amended to include another condition, which would read: *“that a Natural Heritage/Hazard Study be completed to the satisfaction of the Grand River Conservation Authority and further that the Grand River conservation Authority file with the Secretary-Treasurer of the Planning and Land Division Division, a letter of clearance of this condition.”*

Attached to this letter, we are including not only a copy of the GRCA memorandum dated March 10th, 2011, but also correspondence from the Township of Puslinch to the IBI Group, dated May 9th, 2011.

It is our understanding that our request will be considered by the Land Division Committee at their upcoming meeting scheduled for Thursday, June 10th, 2011, and we thank you very much for making these arrangements.

Yours very truly

BLACK, SHOEMAKER, ROBINSON & DONALDSON LIMITED


A. Bruce Donaldson, O.L.S., O.L.I.P.

ABD*em

Encl.

cc Corporation of the Township of Puslinch, 7404 Wellington Road 34, R. R. # 3,
Guelph, Ontario. N1H 6H9, Attn: Mrs. Brenda Law, Clerk
Corporation of the Township of Puslinch, 7404 Wellington Road 34, R. R. # 3,
Guelph, Ontario. N1H 6H9, Attn: Mrs. Colleen Sutton, Sec-Treas. PAC
Croftholm Farms Ltd., 6677 Wellington Road 34, R. R. # 22, Cambridge, Ontario,
N3C 2V4, Attn: Mr. Harold Holm



Township of Puslinch

7404 Wellington Rd. 34, R.R.3, Guelph, Ontario N1H 6H9
Telephone: (519) 763-1226 Fax: (519) 763-5846



May 9, 2011

IBI Group
379 Queen Street South
Kitchener, ON N2G 1W6

275 9453

COPY

Attention: Jacqueline Zmija @ IBI Group . com

Dear Jacqueline:

Re: Zoning Bylaw Amendment Application #P2/11
Croft Holm Pit - 6677 Wellington Road #34
Part Lot 8, Rear Concession 2

Thank you for attending before Township Council with respect to the above-reference application.

This is to confirm that Council requested that you re-attend as a delegation once you have confirmation from the Grand River Conservation Authority with respect to the limit of the Natural Environment zone.

Yours very truly,

(Mrs.) Brenda Law, AMCT
CAO/Clerk-Treasurer

BL*hk

cc. Sarah Wilhelm, Planner, County of Wellington
Colleen Sutton, Planning Advisory Committee ✓



2(a)

400 Clyde Road, P.O. Box 729 Cambridge, ON N1R 5W6

Phone: 519.621.2761 Toll free: 866.900.4722 Fax: 519.621.4844 Online: www.grandriver.ca



DATE: MARCH 10, 2011
GRCA FILE: Wellington/Puslinch/ZC/C

YOUR FILE:

P2/2011

RECEIVED

MAR 31 2011

RE: Application for Zoning By-law Amendment
Lot 8, Concession 2, Township of Puslinch
Croft Holm Pit

Township of Puslinch

GRCA COMMENT: *

Without the benefit of a Natural Heritage/Hazard study it is difficult to confirm the limit of the Natural Environment Zone for this site. A portion of the property contains Irish Creek and its associated flood plain. No detailed grading plan with elevations was provided to confirm the flood plain elevation on this property. Irish Creek, its associated fish habitat and flood plain represent the limit of the Natural Environment Zone.

BACKGROUND:

1. Resource Issues:

Information currently available at this office indicates that above noted property contains Irish Creek and its associated flood plain. Irish Creek is identified as fish habitat at this location.

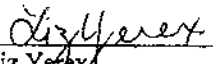
2. Legislative/Policy Requirements and Implications:

The applicant should provide a detailed Natural Heritage/Hazard study to confirm the limit of the Natural Environment Zone.

No future development is permitted below the flood plain elevation of Irish Creek.

3. Additional Information/Suggestions provided in an advisory capacity:

A plan review fee of \$1855.00 is required for the processing of this application.


Liz Yelox
Resource Planner
Resource Management Division

Ministry of Natural
Resources

Guelph District Office
1 Stone Road West
Guelph, ON N1G 4Y2
Tel: 519-826-4927
Fax: 519-826-4929



Ontario

cc also
Gary
Brennan
#66

May 3, 2011

RECEIVED MAY 27 2011

Jerry Demarco
Chair
Ontario Municipal Board
15th Floor, 665 Bay Street
Toronto, ON
M5G 1E5

Dear Mr. Demarco

**Subject: Referral for a Hearing under the Aggregate Resources Act
St. Marys Cement Inc. (Canada), Category 1, Class A Licence
Part of Lot 27, Concession 1
Township of Puslinch, County of Wellington**

St. Marys Cement Inc. (Canada) applied for a Class "A", Category 1 (Pit below the ground water table) licence at the above noted location in February of 2009.


The proposed licence is 28.3 hectares with 24.58 hectares to be extracted. This application if approved, will allow the removal of sand and gravel from below the water table. Anticipated production is 750,000 tonnes per annum.

This application was filed and deemed complete on February 23, 2009. As a result of the notification and consultation period as specified in the Aggregate Resources Act (ARA) 7 objections were received. The last day for filing objections was May 4, 2009. The applicant notified the objectors as per section Section 4.3.3.1 of the Provincial Standards. Three of the seven objectors responded within the 20 day notice period given. The outstanding objectors are Helen Purdy (Millcreek Sub-watershed Community Liaison Team), County of Wellington and the Township of Puslinch.

The applicant has requested a hearing to address the outstanding issues related to the licence application. According to Subsection 11(5) of the ARA, this Ministry is referring the application to the Board for a hearing, pre-hearing conference or mediation meeting at your discretion. Planning approvals are also required prior to the issuance of the licence. St. Marys Cement Inc. (Canada) has requested that any objections to the Official Plan and Zoning By-law amendments be heard at the same time.

A copy of the application, site plans and supporting documents are enclosed. Copies of the letters of objection, mailing list, Board fee and "Ministers Referral Form (R7)" are also included in the package.

Should you have any questions or if I can be of further assistance, please contact Jason McLay, Aggregate Technical Specialist here at the Guelph District Office at 519-826-4927.

Regards,

Ian Hagman
District Manager
Guelph District

c.c. Harrington McAvan Ltd.

Hec



**Response to the Director of Planning, Wellington County on
the boundary of the Galt Moraine ANSI Boundary in the area
of the Neubauer Pit, near Crieff, Ontario**

Dr. John Menzies PGeo



A handwritten signature in black ink, appearing to be 'J. Menzies', written over the professional seal.



May 27th 2011

Response to the Director of Planning, Wellington County on the boundary of the Galt Moraine ANSI Boundary in the area of the Neubauer Pit, near Crieff, Ontario

Introduction

This Report has been prepared at the request of the Director of Planning, Mr. Gary Cousins, Wellington County who has retained me to provide expert advice on the ANSI Boundary for the Galt Moraine ANSI in the area of the Neubauer Pit, near Crieff, Ontario.

The Galt Moraine is a well established and agreed upon Area of Natural and Scientific interest (ANSI) (Cordiner, 1981, 1988 Karrow, 1987). The Galt Moraine is part of the Paris-Galt Moraines system that forms a long and largely contiguous landform stretching from the north near Caledon to the southwest into Norfolk County some 560 kilometres (Fig. 1 note Paris-Galt Moraine in light orange) (Chapman & Putnam, 1984; Karrow, 1989). These moraines formed as result of the graduated retreat of the Laurentide Ice Sheet across this part of southern Ontario over the period 13,000 to 15,000 years ago. Successive retreats and short advances helped to build up this moraine complex such that, as well as, tills, there are a series of outwash fans, meltwater channels, kames and kettle holes as topographic features. The moraines are a complex sequence of submarginal, subglacial and ice marginal depositional forms that are very distinctive within this area of the landscape of southern Ontario (Chapman & Putnam, 1984; Weaver & Arnaud, 2011). There can be no doubt or question of the validity and integrity of this ANSI and its more general scientific significance. However, this Report seeks to focus on a particular aspect of the northern boundary of an area generally known as the Neubauer Pit (Fig. 2). The location of this boundary line requires some consideration in terms of its location, and whether a straight line boundary or one that more reflects the topography in the landscape of the moraine is selected.

In developing the boundaries of an ANSI, the Ontario Ministry of Natural Resources (MNR), beginning in the 1970s, followed strict guidelines based upon geological expertise derived from previous mapping on the ground, published papers and geological reports, field mapping, and aerial photograph examination (Kirk & Kor, 2011 *pers comm.*). With regards the particular site near the Neubauer Pit, the 1988 boundary revisions of the ANSI in Puslinch Township were developed as a result of the implementation of the Conservation Land Tax Rebate Program (CLTRP). It was intended to recognize a refinement of the study areas based on natural boundaries. During the MNR study of the Galt Moraine ANSI the entire length of the moraine in southern Ontario was re-evaluated. It was determined that the Puslinch Township site originally identified by Cordiner in the early 1980s was indeed the best locality to represent the salient characteristics of the moraine, as it is one of the few areas left in which these characteristics can be found in a relatively intact condition. Phil Kor of MNR reports that the core area, so defined, encompasses the main features related to the topography of the moraine. (A core area is designed to encompass the most important elements of a site or feature. It is intended such that if all of the land surrounding the core area were to be altered in some way, the characteristics of the original feature would still be evident in the remaining ANSI.) In the case of the area around the Neubauer Pit, the massive nature of the moraine and its typical hummocky topography, which includes an uneven, kettled upper surface, is well represented within the recommended ANSI boundary. The areas excised from the 1988 boundary essentially duplicate this topography.

Questions regarding the Neubauer Pit ANSI boundary line

Several crucial questions have been posed by the Director of Planning that need to be answered. To answer these questions both field and literature research was conducted over a period in late May 2011. The site at the Neubauer Pit was visited from neighbouring land on May 18th and 25th, 2011, and related reports were examined. The questions are as follows:

1. *Did MNR follow their evaluation criteria in developing the new ANSI boundary?*

Based upon the reports and communications I have received from MNR it is apparent that **normal guidelines were followed**. The assessment of any boundary is both an objective scientific procedure but also something of an art that attempts to best reflect the ANSI edge boundary as “true” as possible. Given that the area in question duplicates other core areas of the ANSI it seems reasonable to draw a boundary line in the vicinity of the one shown in Figure 2 (see question 2 below). A more exact line might be considered as shown in Figure 3 as a blue-dotted line but practicality must be equally considered therefore the original red line seems more

than reasonable under the circumstances of pit extraction techniques and the probable inability to render a less than straight boundary line in practice.

2. *Is it reasonable to use straight line boundaries to describe an irregular geographic feature?*

At first glance, since geological features rarely follow straight lines, this question seems not an unreasonable concern. MNR who in their field notes indicate that a line of kettle hole depressions to the immediate east, southeast of the Neubauer Pit extension (shown as a horizontal line in Figure 3 in red) is a significant and well-reasoned boundary line to make. Within the new boundary another set of kettle holes and hummocky kame-like topography are sufficient indicators of the dynamics of ice-contact processes occurring at the time of formation of the moraine, and therefore should be included within the ANSI boundary. In visiting the site in the field, and viewing the boundary line from the neighbouring farmer's fields, it is apparent that to be more exact a line as indicated as a set of blue dots possibly topographically better reflects the 'exact' demarcation line. This blue dotted line follows the base of the kettle hole depressions more accurately. However, since a gravel pit extension is being suggested such a 'wavy' line would be impossible to excavate or even easily demarcate thus the original red line probably best 'fits' the concept of the ANSI boundary in this very specific area where **no significant loss of core ANSI** is going to occur in any case.

3. *Are the core features of provincial interest contained within the new boundary in the vicinity of the proposed pit? Are there any core features in the area proposed to be mined?*

The core features of the Galt Moraine ANSI and those features around and in the vicinity of the Neubauer Pit ANSI site are duplicated extensively both to the south and east of the pit site's extension. No significant loss that is not already well represented in the existing core area of the ANSI will occur. Mining in this new area will not amount to any significant loss of core topography that represents the ANSI in this area of the moraine. The areas to the north, east and west of Concession Road 7 up to the Neubauer Pit site are superb examples of the Galt Moraine ANSI and remain preserved. The small 'edge' that the new pit extension will 'eat' into is of **no geological significance nor merit** that is not duplicated throughout the local area many times over.

4. *Are there any adjacent core features that require a setback from active extraction?*

Adjacent areas to the new extension of the Neubauer Pit will not be impacted from a geomorphological viewpoint. By example the existing pit allows excellent examples of the Galt Moraine ANSI to the south, for instance, to remain in a perfect state of preservation. Provided all correct procedures in pit extraction are followed, as appears to already be the case with the existing Neubauer Pit, then there should be no concern of the pit impinging upon or affecting the surrounding ANSI.

Conclusion

In concluding this report, although the loss of any 'natural' scenery in Ontario must be considered unfortunate, the needs of society and its demand for aggregate resources must be weighed against the need to preserve as much natural geological heritage as possible. Where these two competing demands come up against each other as in the extension of an aggregate pit into the edge of an ANSI boundary even more careful consideration must be given to such an extension. In the case of the Neubauer Pit extension into the edge of the Galt Moraine ANSI questions of correct procedures being followed, the natural 'flow' of the topography and the loss of an ANSI lands must be given the very highest consideration and prioritization.

Based upon careful perusal of various reports and maps, notes supplied by the geologist involved and finally specific field investigations in late May 2011, it seems that a line, as shown as the horizontal line in Figure 3 in red, is a best case scenario line. A blue-dotted line on the same figure is a more exact demarcation line since it follows the kettle hole depression correctly but, in practicality, the red line, as proposed, seems acceptable. No significant loss of core ANSI land will occur and what loss that does is more than well duplicated to the immediate south and east of the pit extension. Based upon extensive research into reports, MNR procedures and the observations from the field geologist involved it seems that, without question, correct procedures for demarking an ANSI boundary and by definition an ANSI were scrupulously followed and applied.

Acknowledgments

The author of this report wishes to thank Don Kirk of the MNR for making MNR geologists' reports and notes available.

References

Chapman, L.J. & Putnam, D.F. 1984. The Physiography of Southern Ontario. 3rd edition Ontario Geological Survey Special Volume. 270pp. [1st Edition, 1951].

Cordiner, G.S. 1981 The Wisconsinan, Ontario Island and Oak Ridges – Peterborough Drumlin Field Earth Science Theme Studies for Central and Southweaster Regions; Ontario Ministry of Natural Resources, Parks and Recreational Areas Branch, Earth Science Series, open File Report 8103, 364p.

Cordiner, G.S. 1988 Boundary Revisions, Earth Science ANSIs, Owen Sound and Wingham Districts. Ontario Ministry of Natural Resources, Parks and Recreational Areas Branch. Open File Earth Sciences Report 8808.

Karrow, P.F. 1987 Quaternary Geology of the Hamilton-Cambridge Area, Southern Ontario, Ontario Geological Survey Report 255, 94p.

Karrow, P.F. 1989. Quaternary geology of the Great Lakes subregion. In R.J. Fulton, (ed.), Quaternary Geology of Canada and Greenland. Geological Survey of Canada No.1 also Geological Society of America, The Geology of North America v. K-1, Chapter 4, pp. 326-350.

Weaver, L., & Arnaud, E., 2011. Polyphase glacigenic deformation in the Waterloo Moraine, Kitchener, Ontario, Canada. *Sedimentary Geology* 235, 292-303.

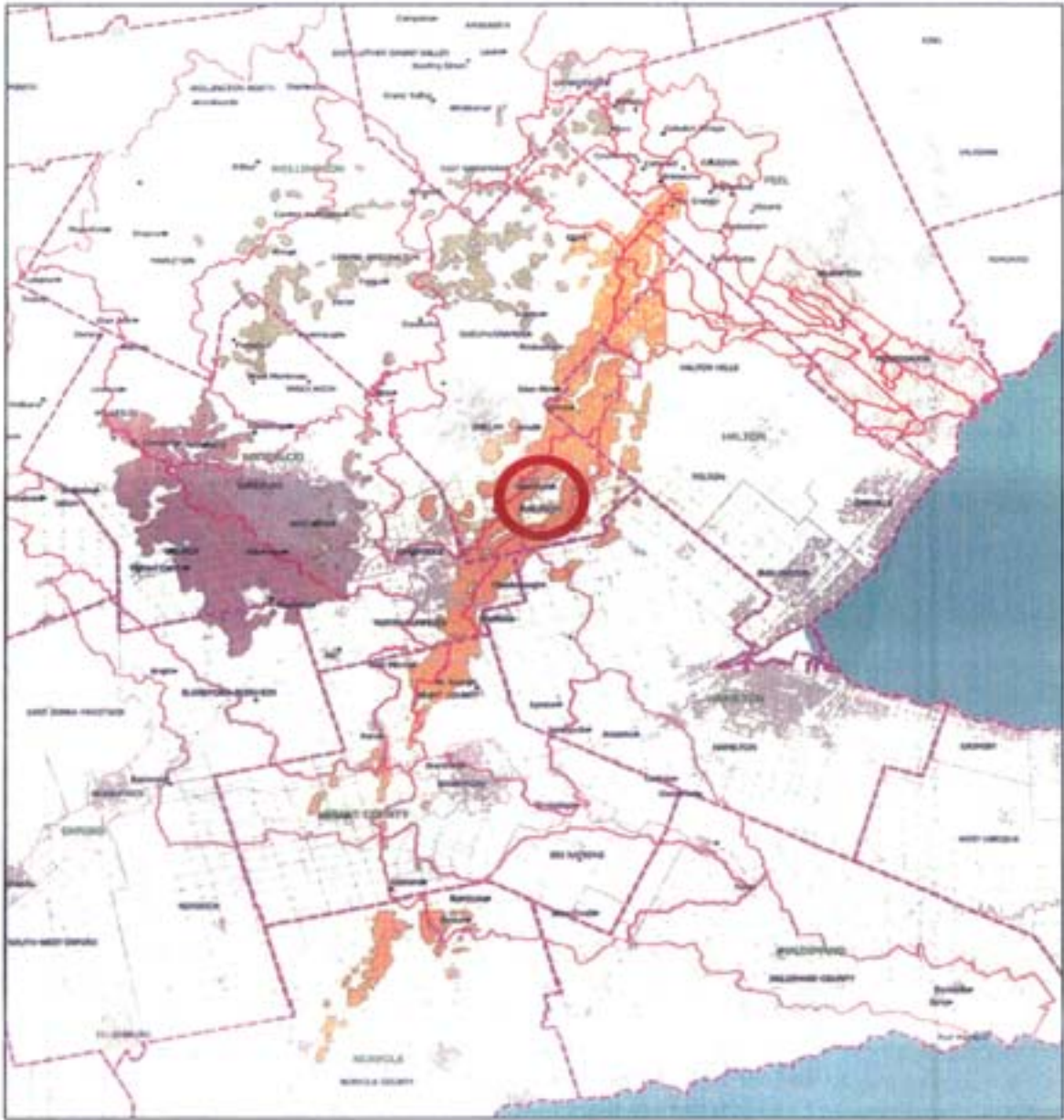


Figure 1 The Paris-Galt Moraine as shown in light orange. The area of the Neubauer Pit is circled in red.

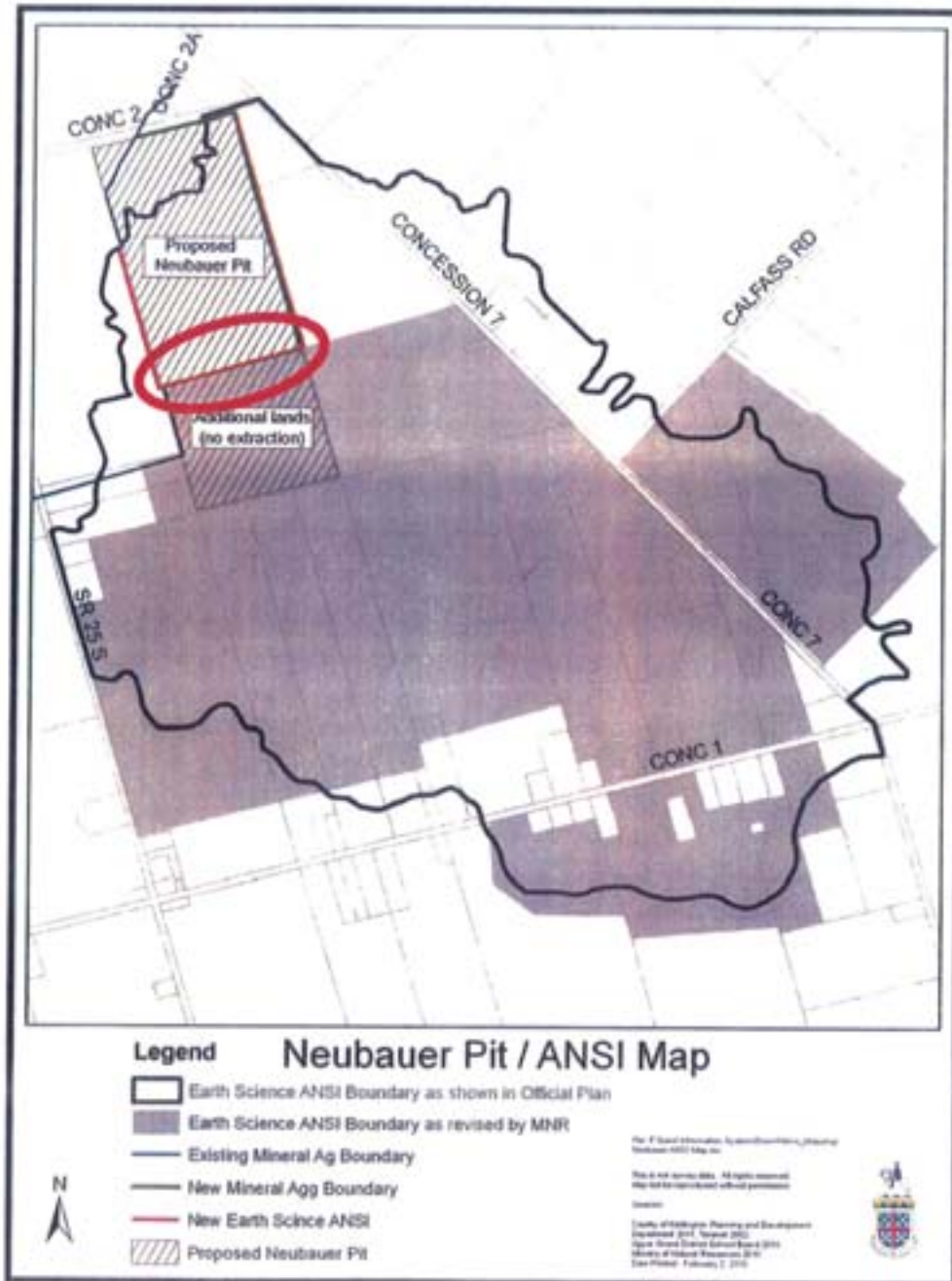


Figure 2 Map of the Neubauer Pit/ ANSI. Note Area of interest for this Report is highlighted in red.



Figure 3 Potential adjustment to the ANSI boundary at the Neubauer Pit but regarded as largely impractical.



*Dr. John Menzies BSc, PhD, PGeo.
Menzies Consulting
9 Ferngate, Fonthill, Ontario
CANADA L0Y 1E4*

27th May 2011

Ministry of Natural
Resources

Guelph District Office
1 Stone Road West
Guelph, ON N1G 4Y2
Tel: 519-826-4927
Fax: 519-826-4929



Ontario

cc Dm.

Hed

May 17, 2011

RECEIVED

Cox Construction Ltd.
687 Eramosa Road
Guelph, ON
N1H 6K5

MAY 27 2011

Township of Puslinch

Attn: Regan Cox

**Subject: Minor Site Plan Amendment for alternate entrance/exit
Puslinch Pit, Licence #5710
Lot: Pt. 9,10,13 and 11 &12, Concession: Rear 4
Township of Puslinch
County of Wellington**

Mr. Cox

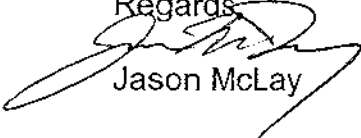
Please be advised that your amendment request was reviewed and approved. Please find enclosed an approved copy of the site plans that illustrate the amendment that was requested.

The amendment was requested to illustrate a new entrance/exit onto Sideroad 10. The amendment was requested to allow material to be removed from the licence on the west side of Sideroad 10 to the applicant's main processing area and scales on the east side of Sideroad 10. I have attached Mr. James Williams' approval letter dated July 25, 2008 that outlines the approved amendment. Please note that it is stated in the letter that approval was granted by Mr. Williams' a year prior to the date the letter was written. An approved copy of the entrance permit from the Township of Puslinch was also included in the initial amendment application and has been added to the file.

Please excuse the delay in getting the approved site plans to yourself and the appropriate agencies. We are currently working to complete an accumulation of amendments that have been ongoing and ensure that the appropriate documents are delivered to the required parties.

If you have any questions regarding this amendment please feel free to contact me at my office.

Regards


Jason McLay

Ministry of
Natural Resources

Ministère des
Richesses naturelles



Guelph District
1 Stone Road West
Guelph, Ontario
N1G 4Y2

Telephone: (519) 826-4955
Facsimile: (519) 826-4929

July 25, 2008

Regan Cox
Cox Construction Limited
687 Eramosa Road
P.O. Box 427
Guelph, ON
N1H 6K5

**SUBJECT: Minor Site Plan Amendment Request Approval
Puslinch Pit, Licence # 5710
Parts Lots 9, 10, 13 and 11 and 12, Concession 4
Township of Puslinch, County of Wellington**

Dear Mr. Cox:

The Ministry of Natural Resources has reviewed the minor amendment request for Cox Construction Ltd. licence 5710 in the Township of Puslinch, County of Wellington. Please be advised that at this time this Ministry grants approval under section 16 (2) of the ARA for the following amendment:

- Amend the Operational Plan of the licence site plan to illustrate a new entrance onto Sideroad 10, this new entrance would be used by the licensee to ship material from their licensed pit on the west side of Sideroad 10 to their scale and main processing area located to the east of Sideroad 10. As a result of this amendment, Cox Construction Ltd. would be able to move all aggregate products out of their main gate, thus avoiding further truck traffic onto Laird Road, west of their main gate for this site. In advance of this amendment request, Cox construction Ltd. has obtained an access permit from the Township of Puslinch.

Included with this approval letter is a signed approved Operational Plan page 2 of 4 of the site plan for this pit licence as approved by this Ministry with the new details described above. Copies of this letter and site plans will be sent to the Township of Puslinch and County of Wellington.

As a point of clarification it should be noted that this specific amendment was requested by the licensee almost a year ago, while verbal approval was given the paperwork for this item was misplaced and the item is now being completed by the undersigned – I regret the delay in approving this item and hope it has not caused too much inconvenience for any of the parties involved.

Should you require any further information concerning this matter, please contact the undersigned at this office.

Yours truly,

James Williams
Aggregate Technical Specialist
Guelph District
Ph: 519 826-4927

Cc. Rob Stovel, Stovel and Associates Inc.
Township of Puslinch
County of Wellington

Ministry of Natural
Resources

Guelph District Office
1 Stone Road West
Guelph, ON N1G 4Y2
Tel: 519-826-4927
Fax: 519-826-4929



May 31, 2011

Carmeuse Lime (Canada)
P.O. Box 190
Oxford County Road 6
Ingersoll, ON
N5C 3K5

RECEIVED

JUN 03 2011

Township of Puslinch

Subject: Corporate Name Change for licence #5482
Lot: 1,2,3 Concession: 4
Township of Puslich
County of Wellington

Mr. Martin

Please find enclosed a signed copy of your licence to operate at the above mentioned property.

This completes the amendment to the licence as a result of the corporate name change from Guelph Dolime to Carmeuse Lime (Canada). Please note that this licence is still required to adhere to all of the associated licence and the site plan conditions.

If you should have any questions regarding this name change please contact me at the number below.

Regards,


Jason McLay
Aggregate Technical Specialist
Guelph District Office
519-826-4927

c.c. County of Wellington
Township of Puslinch
The Ontario Aggregate Resource Corporation
Ministry of Labour



LICENCE
Aggregate Resources Act

Licence No.
No du permis 5482

PERMIS
Loi sur les ressources en agrégats

Amended Licence

Pursuant to the Aggregate Resources Act and Regulations thereunder, and subject to the limitations thereof and to the conditions of the licence and the requirements of the site plan,

Conformément à la Loi de 1997 sur les ressources en agrégats et à ses règlements, et sujet aux restrictions qu'ils comportent, aux conditions d'octroi du permis et aux exigences du plan du site,

this Class licence is issued to:
nous délivrons ce permis de classe: A à:

Carmeuse Lime (Canada)
P.O. Box 190
Oxford County Road 6
Ingersoll, ON
CANADA
N5C 3K5

to operate a pour exploiter un/une	<u>Both Pit and Quarry</u>	on a sur le terrain de	<u>89.8</u>	hectare site located in: hectares situé à l'endroit suivant:
<u>1,2,3</u>	<u>4</u>	<u>PUSLINCH</u>	<u>PUSLINCH TP</u>	<u>WELLINGTON CO</u>
Lot	Concession	Section	Geographic Township	Local Municipality
				County / Regional Municipality / District

The licence is subject to the following conditions:
Ce permis est assujéti aux conditions suivantes:

As shown on attached Schedule "A".

Effective the 19 day of May, 2011
En vigueur le _____ jour de _____, 2011

Minister of Natural Resources
Ministre des Richesses Naturelles

Hef

Brenda Law

From: Greg Scheifele [gwsefs@sympatico.ca]
Sent: Monday, May 30, 2011 2:16 PM
To: Brenda Law
Cc: Stan Denhoed (Stan Denhoed)
Subject: Martinello and Nigro Pits
Attachments: ltr dec 15.06.doc

Brenda,

On May 20th I inspected the Martinello and Nigro Pits along with Township Council and Stan Denhoed. Al Murray and Jason McLay of MNR were also in attendance. As you are aware, CBM Aggregates has surrendered the license for the Martinello Pit and the eastern portion of the Nigro Pit. MNR staff considered both pits to have been effectively rehabilitated to an agricultural after-use.

The Martinello Pit is characterized by very stony ground with little or no topsoil evident. A groundcover is established that consists of grass and an abundance of weeds (e.g. wild carrot, common mullein, sweet white clover, goldenrods etc.). Some scattered red clover is present but the quantity is insufficient to represent a grass/legume forage crop of interest to farmers. Although the pit appeared to have been graded in accordance with the Rehabilitation Plan, MNR staff indicated that a survey of the pit floor had not been carried out to confirm that the final elevation was consistent with the Plan. In this regard, there is an infiltration area in the southwest corner of the pit that is likely not 1.5m above the water table as it held surface water and exhibited cattails and willow shrubs. Some small nodal planting of white pine and white spruce were observed along the 10th Sideroad and southern limit of the pit but their numbers were insufficient to provide any meaningful forest cover. Unfortunately, Manitoba maple seedlings, a highly invasive alien species, have also become established on the pit sideslopes near the 10th Sideroad. In summary, this area which was formerly characterized by mostly class 2 and 3 agricultural soils, is presently not capable of producing common field crops as it did prior to mineral aggregate extraction.

With respect to the Nigro Pit which was formerly used for agricultural crop production (i.e. class 2 agricultural soils), it is now characterized by a groundcover of grass and mixed weeds with very little legume content. It appears to have less surface stones than the Martinello Pit as a thin veneer of topsoil was re-applied over most of the area. Extensive surface water covered the central portion of the pit floor and many willow shrubs have become established in this area, suggesting that the water table was close to the ground surface. Several large boulders were also left on the pit floor. In my opinion, this area is also presently unsuitable for the production of common field crops.

In conclusion, there has been no substantive improvement in the rehabilitation of these lands since my December 2006 correspondence (attached) to the Township on these matters.

Regards,

Greg

5/30/2011



File: 2611
By: Fax & Mail

December 15, 2006

Township of Puslinch
7404 Wellington Rd. 34
R.R. #3
Guelph, ON
N1H 6H9

Attention: Mrs. Brenda Law, A.M.C.T.
Clerk-Treasurer

Dear Mrs. Law:

Re: Rehabilitation of the Martinello and Nigro Pits

Ministry of Natural Resources (MNR) staff have been notified that extraction is now completed at the Martinello Pit and in the eastern portion of the Nigro Pit (i.e. east of Sideroad 12), both of which are now owned and operated by CBM Aggregates. The Martinello Pit is to be rehabilitated to an agricultural and forestry after-use while the Nigro Pit was to be rehabilitated to a wetland and forestry after-use. In the spring of 2006 CBM Aggregates obtained an amendment to the Rehabilitation Plan for the Nigro Pit in order to restore the site to agriculture since the quality of mineral aggregate was apparently insufficient to warrant mining below the water table as previously planned.

Both the Martinello and Nigro Pits appear to have been graded to their final landform shape but they are both significantly deficient in topsoil and subsoil. Topsoil has not been applied to much of the Martinello Pit and there are no soil stockpiles left on-site. At the Nigro pit there has only been 5 to 15cm of topsoil spread over most of the area and there is no evidence of subsoil over parent material. There are also small areas of ponded water on the pit floor and many cobbles and boulders have been left on the soil surface in certain areas. No soil stockpiles are left in this area for further use in site rehabilitation. The Nigro site has apparently not been seeded with a desirable grass/legume mixture because it is now covered with an abundance of weeds. Weeds are also invading the Martinello Pit. Hopefully, CBM Aggregates does not consider these sites to be restored to agricultural use because in their present condition they will never produce a satisfactory yield of common field crops. It is also clear that large volumes of topsoil and subsoil will have to be imported to these sites in order to effectively restore them to their former agricultural soil capability and also support the trees scheduled for planting in these areas. The importation of soil materials may require an amendment to the Rehabilitation Plans previously approved for these sites. In any event, these rehabilitation concerns need to be addressed by CBM Aggregates to the satisfaction of MNR and the Township of Puslinch.

This situation reflects on CBM's ability and commitment to rehabilitate mined out lands and also has a bearing on the company's current request to extract below the water table on the Mast-Snyder site which has environmentally sensitive provincially significant wetlands immediately adjacent to the proposed limit of extraction.

Yours truly,

GWS Ecological & Forestry Services Inc.

Greg W. Scheifele, M. A., R.P.F.
Principal Ecologist/Forester

c.c. James Williams, Ministry of Natural Resources, Guelph District Office

#log

Brenda Law

From: Stan Denhoed [sdenhoed@hardenv.com]
Sent: Tuesday, May 31, 2011 10:45 AM
To: Brenda Law
Subject: CBM- McNally
Attachments: sdenhoed@hardenv.com.vcf

Brenda

During our Martinello/Nigro site visits I spoke with both Al Murray and Jason McLay regarding the CBM McNally site. Neither had a good explanation for allowing CBM to discharge process water into the Aberfoyle South pond considering that the site plans do not allow for that activity. Al Murray suggested that we look at it in regards to the overall rehabilitation of the Concession II pits and I agree whole heartedly regardless of the ultimate use of those lands. There are going to be hydrological changes to the pit area even without the "Big Lake" and we should be making every effort to engage the operators in discussions to minimize the changes. Specifically, it is likely that water levels will rise on the west end of the resource area, good for Mill Creek, potentially bad for the wetlands along the creek. The placement of silt on the McNally/Aberfoyle South property can be beneficial to the overall rehabilitation if it is done correctly. This is why I have been trying to have the operator and the MNR address the non-compliance issue of discharging process water off-site.

I suggest that we formally request to meet with CBM to discuss the silt placement.

Stan Denhoed, P.Eng., M.Sc.