



**Dufferin Milton Quarry
Community Advisory Panel (CAP)
Meeting Minutes**

Meeting Date, Time & Location

Tuesday, February 22, 2011 7:00 p.m. - 8:30 p.m.
Dufferin Milton Quarry, Boardroom, 9410 Dublin Line, Milton

Participants

Name	Organization
David Johnston	Niagara Escarpment Commission, CAP Member
Maureen Smith	Bruce Trail, CAP Member
Janice Vansco	Local Neighbour, CAP Member
Julia Carslake	Local Neighbour, CAP Member
Marrion McMeeken	Local Neighbour (Guest)
Kate Bottos	Local Neighbour (Guest)
Steve Clairman	Local Neighbour (Guest)
Mike Grimwood	Local Neighbour (Guest)
Jan Mowbray,	Former Town of Milton, Councilor
Walter Heyden	Dufferin Aggregates (site manager, Milton Quarry), CAP Member
Letty Stevenson	Dufferin Aggregates, CAP Member

Guests

Daniel Corkery, Golder Associates

Facilitation and Support

Sarah McEvoy, Edelman Canada
Tom Sargent, Edelman Canada

Regrets

Kim Wilson, Local Neighbour
Stephen Ng Qui Sang, Neighbour (Guest)

Minutes

- 1) Meeting called to order at 7:00 p.m. by Sarah McEvoy
- 2) Sarah McEvoy outlined the agenda for the meeting
- 3) Sarah McEvoy asked CAP members to review the November 23 minutes
 - a) The minutes were approved by the CAP members
- 4) Walter Heyden provided an operational update for the Milton Quarry
 - a) First blast of the season was on February 17th and the quarry will be blasting on average two times per week and up to three times per week during the summer months. Double shift production will begin in April and will last until October 2011
- 5) The quarry operations are now extending into the extension lands.
- 6) Walter provided CAP members with a Milton Quarry CAP blasting presentation, including:
 - a) Talking about ground vibrations and air concussion
 - b) Speaking about the Ministry of the Environment Guidelines for blasting in quarries, which are the most stringent in North America
 - c) Showing pictures of Monitoring equipment and highlighting the various monitoring sites positioned around the Milton Quarry
 - d) Talking about the principal influences determining ground vibrations and air concussion at a receptor
 - i) Distance between the blast and the receptor (residence)
 - ii) Maximum explosive weight per delay period
 - e) A discussion about ground vibration characteristics including:
 - i) Peak particle velocity: Excitation of the particles in the ground usually measured in mm/sec
 - ii) Particle velocity is the single best ground motion descriptor and the most practical method for regulating damage potential for a class of structure
 - iii) Damage potentials for low-frequency blasts (<40 Hz) are considerably higher than those for high frequency blasts (>40 Hz)
 - f) Ground vibration perceptions depend on magnitude, dominant frequencies and duration
 - g) An explanation of air concussion, which is when energy is transmitted within the atmosphere in the form of pressure waves

- i) Air pressure rises rapidly, falls more slowly and then returns to a normal value after a number of oscillations
 - ii) Spread over a large area
 - iii) Wave consists of audible sound (noise) and concussion measured in dBL or psi (for pressure)
 - h) An explanation on human response, which is complex and depends on several factors
 - i) Vibration magnitude is only one factor
 - ii) The human body is very sensitive to the onset of vibration; very poor at distinguishing relative magnitudes; perceives vibrations well below the onset of even cosmetic damage
 - i) Human response to air concussion
 - i) Similar to ground vibrations; perceptions is stronger indoors; and air pressure pulses from the air blast can create rattling and rumbling noises
- 7) Sarah McEvoy opened the floor up to comments from CAP members
- 8) Julia Carslake asked Walter about Paul Ostrander's letter to Kim Wilson and what had been done since the last CAP meeting
- a) Kim was sent the contact information for the various government agencies that he needs to contact to get the information he is looking for. In addition to that, Dufferin also made a site visit to Kim's house, along with a representative from the Conestoga Rovers Association. The site visit included an examination of Kim's sump pump and gravity drain. Dufferin has continued to be in contact with Kim over the past few months.
- 9) Walter asked CAP members whether they had any ideas for upcoming 2011 meetings. Topics include:
- a. An explanation on the complete aggregate life cycle, including the process from extraction to final use (tentatively scheduled for April)
 - b. An overview of the land being taken over by Conservation Halton
 - c. A presentation on quarry rehabilitation
- 10) Milton Quarry was presented with an environmental award by the National Sandstone and Gravel Association for site and community clean up at and near the Milton quarry site .
- 11) Dufferin and Milton Quarry employees will be participating in Earth Day 2011 and will focus their efforts cleaning up along Sixth Line. Garbage cans will be installed just inside the fence at the employee entrance gate. Also, the Town Line Road vacant properties will have Milton employees cleaning up garbage in front of the Armour Stone.
- 12) Dufferin-sponsored tree planting will take place on April 30th. Tree planting will occur adjacent to the North East side of the main quarry

13) The Milton Quarry will hold their Open House on June 4.

Action Items

14) Walter from Dufferin Aggregates sending out link to an overview of the Water Management System found online to CAP members

15) Dufferin will send out a couple of tentative dates for CAP members to come and watch a blast

16) Walter is determining a future date for a site tour of an Acton quarry (tentatively the June CAP meeting)

17) Walter will send out the Earth Day date and provide specific details around environmental initiatives being worked on by Milton Quarry employees

Next Meeting

18) The next meeting has been scheduled for Tuesday, April 26, 2011, 7:00 p.m. – 8:30 p.m. at the Dufferin Milton Quarry, Boardroom

19) The presentation will focus on the complete aggregate cycle, including the process from extraction to final use