



### **Meeting Minutes**

Coordination Committee

Mon. January 9, 2016, 3:00 – 5:00 pm

71 Main St W, City Hall, Rm 192/193

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#### **In Attendance:**

Denis Corr, Corr Research (Chair)  
Karen Logan, HIEA Representative, Communication Coordinator  
George McKibbon, McKibbon Wakefield Inc./University of Guelph  
Trevor Imhoff, Public Health, City of Hamilton  
Adriano Mena, Citizen  
Fran Scott, McMaster Institute for Healthier Environments  
Brian Montgomery, Public Health, City of Hamilton  
Lynda Lukasik, Environment Hamilton  
Andrew Sebestyen, U.S. Steel Canada  
Heather Donison, Sustainability, City of Hamilton  
Matt Adams, Associate Professor - Ryerson University  
Peter Chernets, Citizen  
Dan Dobrin, Ministry of the Environment and Climate Change  
Mili New, Ministry of the Environment and Climate Change  
Christine Borselli-Morgan, Citizen  
Ted Mitchell, Citizen  
Jonathan Bastien, Hamilton Conservation Authority  
Michael Gemmel, Green Venture

#### **Regrets:**

John Lundrigan, ArcelorMittal Dofasco  
Anna Krol, Health Canada  
James Kaspersetz, OEAC  
Barry Duffey, Ministry of the Environment and Climate Change  
Patrick Quealey, Environment and Climate Change Canada  
Lorraine Vanderzwelt– Mohawk College  
Shivani Vigneswaran, Environment and Climate Change Canada  
Carolyn Barnes, ArcelorMittal Dofasco  
Peter Topalovic, Smart Commute -TDM, City of Hamilton  
Joel Konik, Hamilton Conservation Authority  
Paul Szachlewicz, Horizon Utilities Corporation

Alexandra Graham, Citizen  
Brian Jantzi, Citizen  
Matt Lawson, Public Health, City of Hamilton  
Sally Radisic, Public Health, City of Hamilton  
Christine Newbold, Planning, City of Hamilton  
Andrea McDowell, Public Health, City of Hamilton  
Katie Chan, U.S. Steel Canada  
Weeberb Réquia, McMaster University

*Meeting Commenced at 3:03 pm*

## **1. Introductions & Welcome**

## **2. Approval of November 28, 2016 Minutes**

- Approved

## **Updates:**

## **3. Clean Air Hamilton Project Summaries/Findings/Updates**

### **Fresh Air for Kids – Corr Research Inc.**

Link to Presentation:

- Project is in partnership with CAH members specifically including Green Venture and is meant to teach kids about air quality.
- Fresh Air Kids goes to schools and gets kids to find their house on a map and find best/worse route to take to schools in regards to AQ. Then we engage students and ask what they can do to improve AQ.
- Includes games and hands on activities with handheld devices that are generously donated from Environment Hamilton. Gives opportunities to discuss science of AQ and careers in the environmental sector.
- Project very dependent on gracious donation of MOECC AQ monitoring van, data is very comprehensive and take of a lot of time to decipher.
- 4 schools were contacted in 2016. One school completed so far due to timing with funding and negotiations with schools. Getting into schools and getting funding is always challenging.
- This project being recognized at the Air Quality & School Commute Event being held March 23, 2017. Overall the project is very rewarding

### Questions/Discussions:

- Karen L. – Asking about PM1 and why measure?
  - Denis C. – Fine particulate matter such as PM1 becoming more important, data is there if required.
- Adriano M. – Asking if the science shows that if students are making changes?
  - Denis C. – Program usually does not include going back to the schools.
  - Michael G. – Have been approached from previous schools wanting us to go back.

Looking for funding to be able to do so.

- Denis C. – Many great activities in the schools. Currently working with Kelly Scott of PHS in active transportation within schools. St. Marguerite d'Youville school has won the award last year for most environmentally aware school in all of Canada as well as a Staples award this year as one of the top ten environmental schools.

### **Eco Stars Classroom Challenge – Green Venture**

- Eco Stars is a classroom based challenge project through the web using tools such as YouTube.
- We pose environmental challenges to classrooms with varying degrees of difficulties and assign points to classrooms that complete the challenges.
- Green Venture collects all the submissions into a database of all the good work going on in the region which we then upload onto mapclimatechange (<http://www.mapclimatechange.ca/>)
- The winning classroom receives prizes including a free trip to our Eco House.
- To date 41 entries submitted, in Oct 2016 we estimated to have approx.. 167 students participated.

### **Totally Transit for Kids – Green Venture**

- One of Green Ventures most popular programs, Totally Transit for Kids teaches elementary school children how easy it is to use public transportation. We also have a program for older adults, however this year's funding was for school aged children.
- Program included in 2016 classes coming to our Eco House and taking the program to the schools.
- 2016 program had 537 students, representing 25 classes from 8 schools participate which included a chartered HSR ride to EcoHouse. Green Venture also delivered 18 presentations to approx.. 1400 students and adults.

### Questions/Discussions:

- Mili N. – Asking if Green Venture has seen an increase in ridership?
  - Michael G. – GV does not track those numbers.
- Mili N. – Asking what is the average age of the students in these programs?
  - Michael G. – Most of GV programs geared towards grades 2-6, Totally Transit program specifically grades 5-6

### **AQHI Website Update – Dr. Matt Adams**

Link to website: <http://www.hamiltonaqhi.com/>

- AQHI website created a few years ago and driven by MOECC air monitoring stations and Denis' mobile air monitoring data.
- Creation of hexagon shapes for area delineation that you can hover your mouse over and will automatically go transparent to see roads underneath and will give you a value on the right hand side of the website.
- Website now allows you to search back by any hour of any day and look at spatial variation of AQ across Hamilton.

- Updated all historical mobile air monitoring data from 2005 up to 2016
- Data includes percent mortality risk rating for combination of all pollutants, AQHI and other pollutants including Sulphur Dioxide, Particulate Matter, Nitrogen Oxide, Nitrogen Dioxide, Nitrogen Oxides.
- Colours have also changed to reflect new AQHI colouring which is vast improvement from previous brown shades.

#### Questions/Discussions:

- Karen L. – Asking what is size of the hexagons?
  - Matt A. – Approximately 500m across.
- Dan D. – Asking if there is a way to make hexagons transparent?
  - Matt A. – Could easily make more transparent, however, with transparency the colours tend to blend together making it difficult to decipher, you are also able to hover hexagons and see value on right hand sides. One of the more progressive AQ maps out there.
- Dan D. – Asking if there is a way to incorporate modelling data to get better resolution?
  - Matt A. – Technically could, but already at the best resolution and if went lower you would get a lot of “noise” and would have random variations at a smaller scale.
- Karen L. – Airshed Model based on 2012 data and includes all meteorological data
  - Matt A. – Recommends it would be a useful tool to visualize model results on AQHI map.
- Matt A. – Long term goal of getting masters student to update and improve map and create accessible database.
- Fran S. – Asking if you could use this as education data, to predict behavioural changes and impact on AQ?
  - Matt A. – Recommend that may be something the airshed model would be better at as it is source proportionate.
- George M. – When airshed becomes public, managing surprises are going to be important. Having an answer as to why the two different maps show different results is important.
- Adriano M. – Asking if there is a potential to use map and create time based movies of AQ and layer that with policy changes and how it impacts AQ?
  - Matt A. – Great idea, the availability of features on the web have exploded over the past couple years, great potential to improve map from here.
- Karen L. – Asking if the map includes elevation?
  - Matt A. – Not this map, but when bring on masters student would like to incorporate.
- Matt A. – Exciting new advancements including two satellites being launched soon to measure ground level ozone and PM, should be running by 2018.
- Denis C. – Asking if satellites will measure NOx?
  - Matt A. – Satellites unable to measure NOx, PM measured through measuring

reflectivity off particulate matter.

- Ted M. – Asking does the AQHI map overlay the MOECC AQ stations?
  - Matt A. – Yes, the map interpolated with AQ stations.
- Denis C. – When stratify all data, good coverage of Hamilton and good statistics, came out really well.
- Karen L. – Asking who owns satellites.
  - Matt A. – NASA owns but will freely share information with Canada.

#### **Anti-Idling Signs Project – Hamilton Conservation Authority**

- In total 40 signs were purchased and installed across parking lots owned by HCA.
- Signs installed based on size of parking lot and comments received by park supervisors.

Locations include:

- Dundas Valley - Gate House Museum Parking Lot
  - Dundas Valley - Trail Center Parking Lot
  - Eramosa Karst Parking Lot
  - Devil's Punch Bowl Parking Lot
  - Christie Lake Beach Marina Parking Area
  - Lakeside Marina Parking Area
  - Tews Falls Parking Lot
  - Websters Falls Parking Lot
  - Valens Lake Conservation Area
  - Fifty Point Conservation Area
- Overall worked out to be great little project. Thank you to Clean Air Hamilton for funding support. Moving forward we're looking at expanding anti-idling program through more signs, installing vehicle decals and public outreach.

#### **4. Air Quality and School Commute Event – Dr. Matt Adams**

- Conducted research on an idling program that looked at idling vehicles outside of schools during morning drop off. New school drop off design had cars waiting in lines to drop off kids.
- Survey at schools included number of vehicles, type and age of vehicles. Created a statistical model using information from vehicle database. Micro simulation completed for each school to get driving patterns to create dispersion models and impact of AQ on locations across schools.
- Decided to use conservative approach and estimate minimum values. Findings show upwards of  $150 \mu\text{g}/\text{m}^3$  at drop-off locations.

#### Questions/Discussions:

- Lynda L. – Asking whether investigated buses idling in neighbourhood areas. Suggesting this could be future project as majority of buses are dirty diesel buses.
  - Matt A. – No, buses were out of the scope of this project, but could be interesting

project. However, based on this project school interested in using data to design new schools.

- Christine B.M – Asking if you looked at location of playgrounds and design of playgrounds.
  - Matt A. – Yes, estimated locations of playgrounds and estimated impacts which were found to be minimal. Future research looking into hour by hour and student performance.
- Adrian M. – Recommending then based on research schoolboards should be involved in community design for active transportation. Example when new subdivisions are built and new schools are needed there should be communication between planners and schoolboards.
  - \*\* Question to planners: “When new subdivisions and schools are built, are there any considerations to encourage active or public transportation for children and parents?”
- Mili N. – Stating there are many existing schools with idling problems that will continue to exist. It’s important to focus on stopping idling now and asking why this hasn’t been done?
  - Denis C. – CAH lobbied to create an anti-idling bylaw, problem is with enforcement, or lack thereof.
  - Mili N. – Important to also educate parents on what is coming out of their tailpipes and its impact on children.
  - Christine B.M – Recommend looking at walking school bus which could complement Matt’s work.
- Trevor I. – Based on Matt’s research there is going to be an Active and Sustainable School Transportation event on Thursday March 23, 2017 at 6:00PM. Following the keynote talk from Matt there will be a table workshop where questions are posed. Currently looking for volunteers to help out at the event and possibly take notes of responses. Anyone who is interested please let me know. If you decide later please email me.
  - Expressed interest: Christine B.M., Lynda L., Adriano M.

## 5. Clean Air Hamilton 2017 Funding Discussion

- Brian M. – Similar to last year there will be approx.. \$40,000.00 available, maybe a little less for 2017. Going to use similar approach as City Enrichment Fund with laid out guidelines and criteria. Andrea McDowell already created this for POA fine money but was denied by BOH in favour of using the POA money to plant trees
- Brian M. – New rules include if you applied for CEF funding you are unable to apply for this funding as the City views it all as City money.
- Brian M. – Application process will be similar to CEF, 3 unbiased reviewers will review applications including one from PHS, one from other City department, and one from MOECC.
- Denis C. – Recommend getting reviewers who are knowledgeable on air quality.
- Dan D. – Asking how this came about?
  - Brian M. – CEF pushing for consistent templates. Going to be similar to RFP.
- Andrew S. – Would CAH be able to see proposals?
  - Brian M. – Currently undecided yet.

- Dan D. – Will the selection process be points based?
  - Brian M. – Yes points will be given based on applicant satisfying laid out criteria.
- Heather D. – Will we have an opportunity to comment on criteria?
  - Brian M. – Using same criteria created for POA fine money which CAH already provided feedback for.
- Denis C. – Asking if there is any possibility of funding from MOECC or Sustainability Office?
  - Heather D. – Looking into bringing some funding back for 2018.
  - Dan D. – Looking into partnering with air policy branch, air zone management and how Hamilton fits
- Trevor I. – For 2017 funding we will be using this process. Will send out copy of guidelines and criteria so CAH can review again. Deadline for applications are going to be March 13, 2017. This way we can submit report for approval to BOH in May. Moving forward to future years we hope to have submission deadlines for September/August for projects starting the next calendar year. This will be more in line with other City funding deadlines and help ensure successful applicants receive funding early in the year to begin their projects.

## 6. Member Updates

### Ted Mitchell - Citizen

- Currently undertaking neighbourhood radon investigation

### Andrew Sebestyen – U.S. Steel Canada

- Golders expected to have something on airshed model by end of this month

### Lynda Lukasik – Environment Hamilton

- Trees Please program beginning year 2 and looking at McQuesten neighbourhood.

### Brian Montgomery – Public Health Services

- Hamilton's Transportation Summit happening March 24, 2017 at Royal Botanical Gardens

### Action Items:

- **T. Imhoff to send out funding application guidelines and criteria.**
- **Members interested in volunteering at Active & Sustainable School Event March 23, 2017 please email Trevor ([trevor.imhoff@hamilton.ca](mailto:trevor.imhoff@hamilton.ca))**

*Meeting Adjourned at 5:00 pm*

### Next meetings:

<b>February 13, 2017</b>	<b>3:00-5:00pm</b>	<b>City Hall Room 192/193</b>
<b>March 13, 2017</b>	<b>3:00-5:00pm</b>	<b>City Hall Room 192/193</b>