

St Marys Cement Community Relations Committee

Meeting Minutes

Tuesday September 11, 2018

5:00 p.m. – St Marys Cement, Bowmanville Plant

Attendees: Amy Burke, Senior Planner, Municipality of Clarington
Cherisse Diaram, Quarry EIT, St Marys Cement
David Veenstra, Port Darlington Community Association
Ernie Hamilton, Quarry Manager, St Marys Cement
Jeff Mitchell, Port Darlington Community Association
Jim Grimley, Wilmot Creek Homeowners Association
Jim Storey, Operations Manager, St Marys Cement
Luis Urbina, Environmental Manager, St Marys Cement
Ruben Plaza, Environmental Manager, St Marys Cement
Tanya Pardy, Human Resources Manager, St Marys Cement
Willie Woo, Municipality of Clarington Council
Kim Lendvay, *Senior Environmental Officer, MOECC*
Pauline Witzke – *Port Darlington Community Association*

Regrets:

1. Agenda distributed

2. Review of Community Concerns

a) Community concerns between May and September

- 1 related to plume on 02/06/2018
- 1 related to dust on 08/08/2018

b) June 2nd complaint

- Anonymous call to MOE complaining of a haze lingering for about 20 minutes, around 14:20
- Email was sent to SMC
- L. Urbina reviewed opacity records but nothing was found to indicate that a haze was coming from SMC
- Plume typically more visible in morning and evening
- Councillor Woo mentioned that Councillor Hooper concerned about hazes and whether MOE is informed
 - Councillor Hooper concerned that this is masking some other condition
 - ECA (Environmental Compliance Approval) condition requires MOE to be informed when complaint is received

- In this case, complaint was received through the MOE
- Complaints reported within 2 days and formal report sent within 7 days to MOE
- Are outputs (emissions) affected by inputs
 - ❖ Yes, some inputs (raw materials, fuels) do affect emissions
- Residents concerned with visible plume (association with fire)
- Scrubber will reduce emissions but plume will still be visible
- Councillor Woo will convey that complaints received by SMC are forwarded to the MOE and communication flows both ways
- Many complaints are related to blasting and come from outside the immediate surrounding area
 - Look at wider communications strategy
 - Look at posting “Plume FAQs” on webpage

c) August 8th complaint

- Resident called complaining of black dust on deck
- L. Urbina visited the residence on the same day and obtained samples
- Sample did not indicate coal dust but the sample was very small
- Dust was not present in other areas, localized to deck and appeared to follow a pattern of dried water

3. St Marys Operations Report

a) Monitoring Station Locations

- The monitoring station locations were reviewed and are as follows:



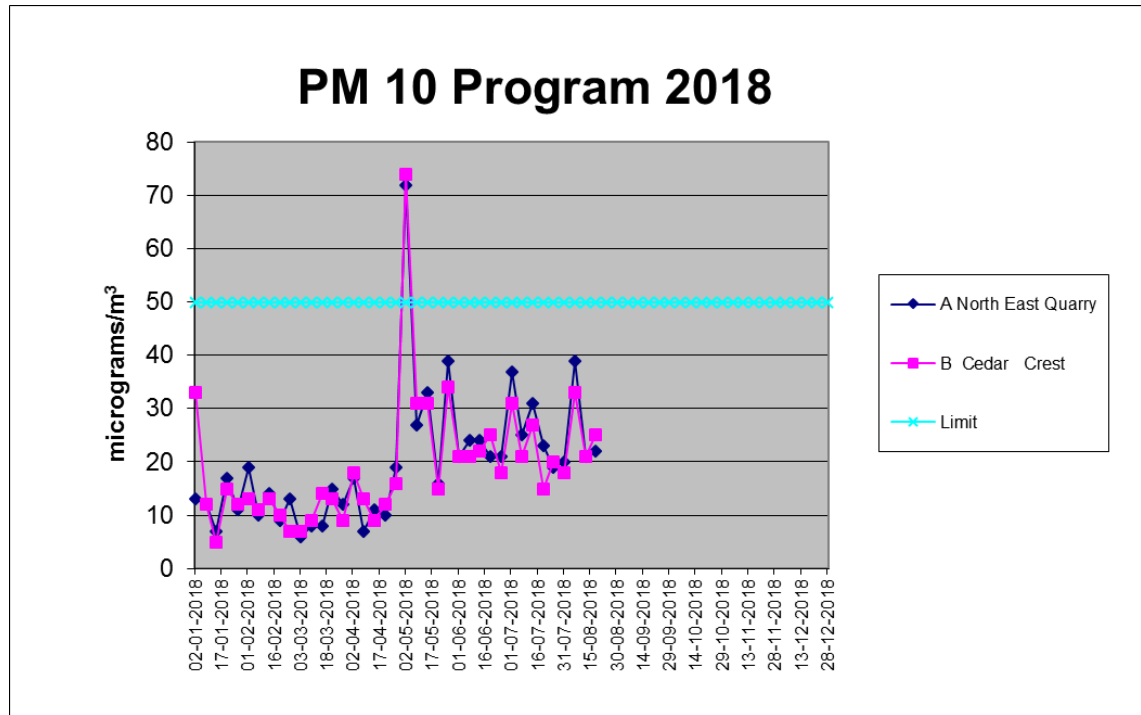
- PM 10 stands for particulate matter which is less than 10 microns in size

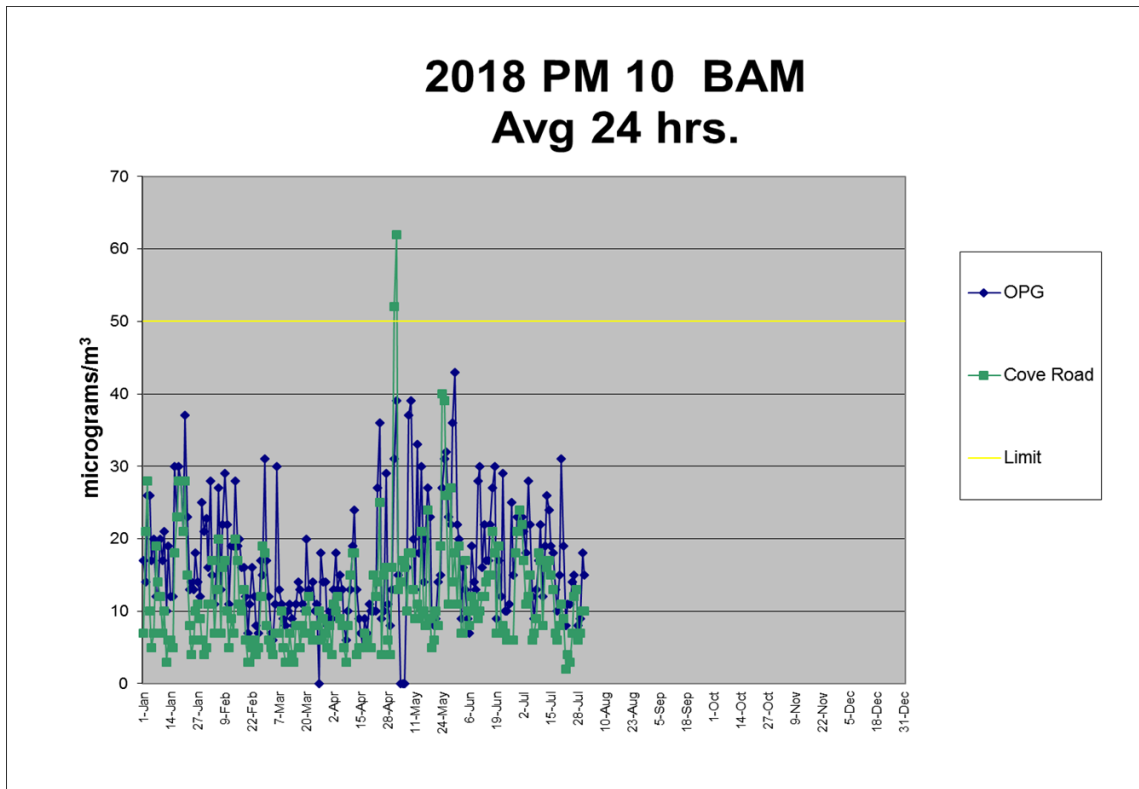
- Dust fall jars take a sample over 30 days which is sent for testing, PM 10 BAM monitors take an hourly sample and PM 10 hi-vol monitors take a sample for a 24H period, every 6 days

b) Seismograph location

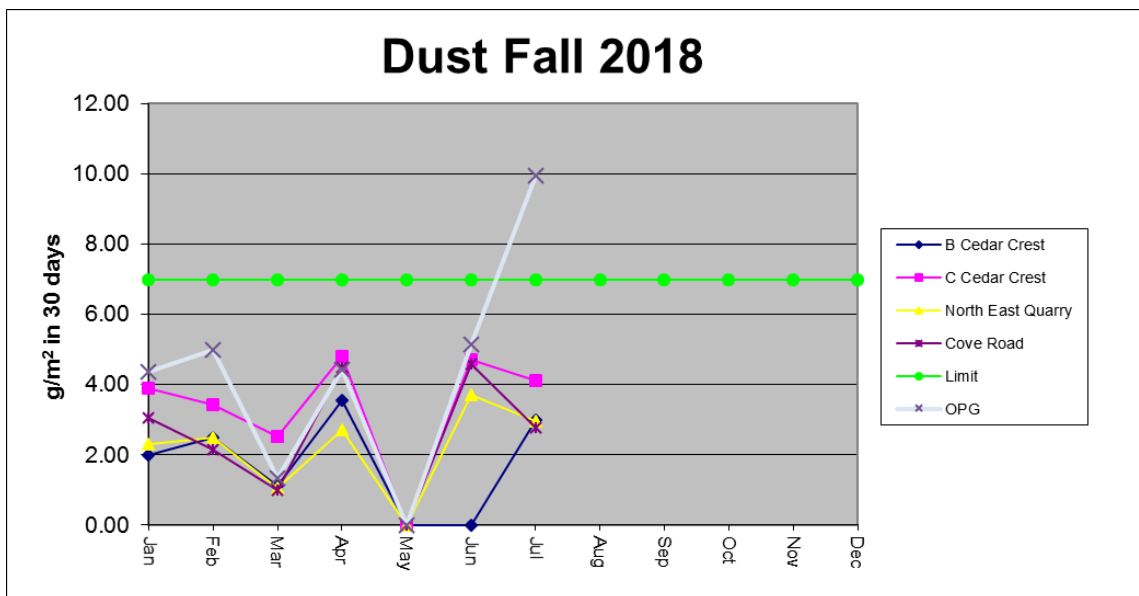
- Temporary unit at vacant municipal lot

c) PM10 Results





d) Dust Fall Monitoring

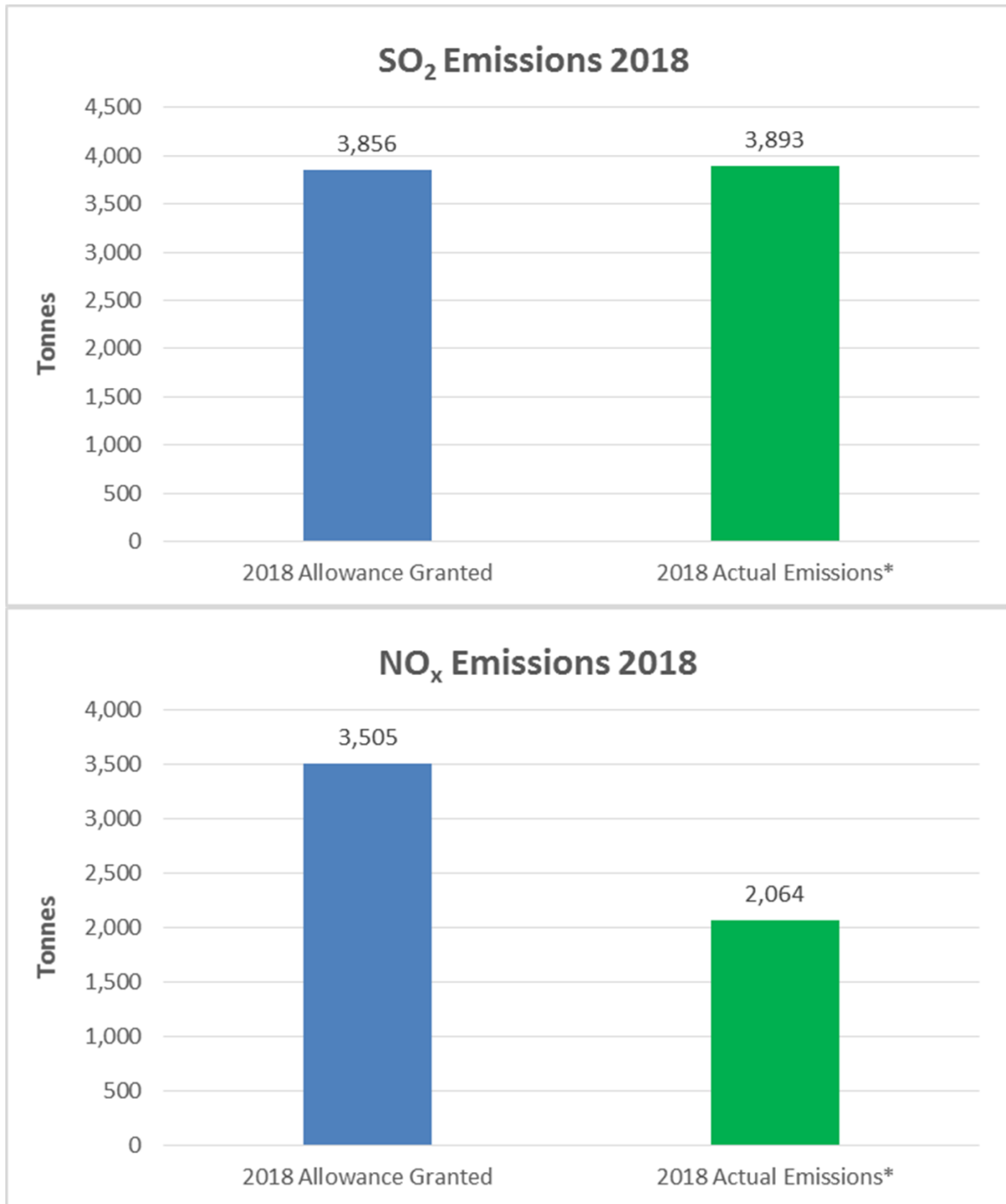


e) PM10 Exceedences

Date	Test	Site	Cause
May 1	BAM	Cove Road	High winds, fugitive dust and Courtice interchange construction
May 2	BAM	Cove Road	High winds, fugitive dust and Courtice interchange construction
May 2	HiVol	Cedar Crest	High winds, fugitive dust and Courtice interchange construction
May 2	HiVol	North East Quarry	High winds, fugitive dust and Courtice interchange construction
May 30	BAM	OPG	Agricultural activities, high winds and fugitive dust
July	Dust Fall Jar	OPG	Courtice interchange construction

- Is there a process to eliminate property as source of dust
 - Combination of visual inspection and identification of possible sources of dust
- Is there a way to correlate upwind sources of dust with downwind readings
 - Yes, this can be examined
 - Visual inspection used as well as consultant review
 - OPG reading in July was odd, only one of the monitors indicated an exceedence (there was not continuous monitoring alert)
- Is there a petrographic microscope to examine mineralogy
 - Difficult to do but possible to distinguish organic or non-organic
 - This is difficult to do and many of the materials encountered on and offsite would be the same (soils, dust from aggregates delivered from site to construction areas, etc.)

f) SO₂ and NO_x Stack Emissions



- SO₂ emissions for 2018 to August were 3,893 tonnes; the total allowance for 2018 is 3,856 tonnes
- NO_x emissions for 2018 to August were 2,064 tonnes; the total allowance for 2018 is 3,505 tonnes
- SO_x emissions typically higher than allowance
 - This is not a non-compliance as credits may be purchased or transferred
 - Bowmanville plant typically transfers credits from St Marys, ON plant

- Scrubber install has been delayed (civil work has started but some investment and equipment have been put off), expected commissioning November 2019 with some work done during Winter 2019 shutdown
- NO_x emissions typically below allowances
- What are the two piles of stone present, south of the plant road
 - This is called the “2 bank” and contains crushed stone
 - Will watch “How it’s made” video about cement plant next meeting

4. Dock Operation

- Applying dust suppressant on open face of fuel piles
- Petcoke piles are covered with tarps
- Maximum height of petcoke stockpiles is 10 m
- Unloading vessels should be stopped with wind velocities over 40km/hr and from direction of concern
- Back up alarms in loaders were changed to white noise alarms to reduce noise complaints

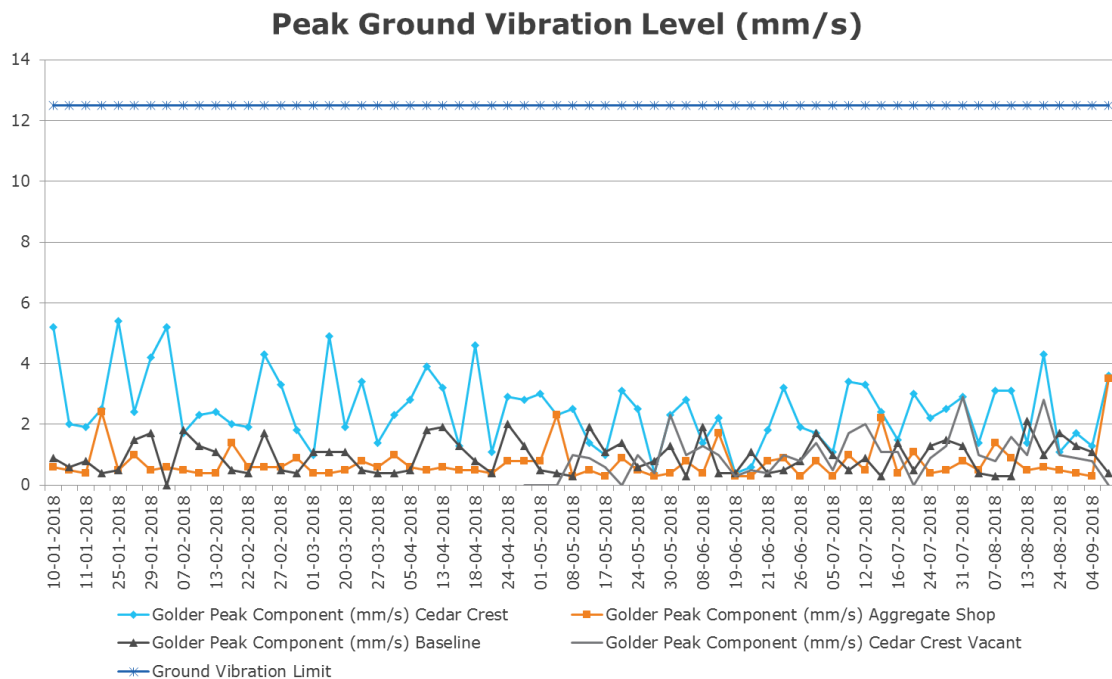
5. Quarry Operation

a) General Quarry Operations

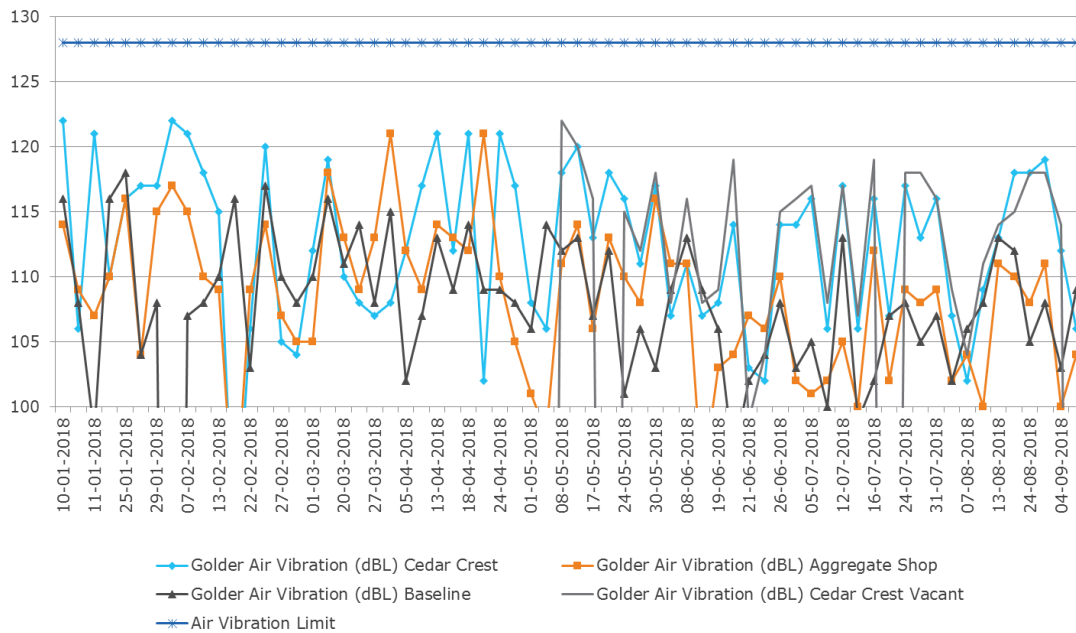
- Producing mainly 1/4/5, switch to 2/3/5 at end of year
- Overburden stripping, screening and stockpiling
 - Berm construction largely completed for 2018 year
 - Clay hauled as part of Port Hope Area Initiative to continue in fall
 - Screening overburden for plant use

b) Vibration Results

- No ground or air vibration exceedances to date in 2018



Peak Air Vibration Level (dB)



6. Community Outreach

- Camp Bucko
- Courtice Family Concerts in the Park
- Bowmanville Family Concerts in the Park
- SeaCan and PPE to Clarington Fire Department
- Their Opportunity
- Durham Children's Watershed Festival

7. June 18th Council Meeting

- Several members of CRC present, presented by David Veenestra, Ernie Hamilton and Ruben Plaza
- Amy looked at how other groups present
 - Other groups also report annually
 - Agricultural Advisory Committee used two pages and most of the presentation was verbal
 - Energy of Waste Management Chair and Co-Chair presented in December using a MS PowerPoint presentation outlining:
 - ❖ Who came forward
 - ❖ Presentations
 - ❖ Tours
 - ❖ Events
 - ❖ Key points of discussion
- Maybe schedule a conversation about how to present in future (timing and format)
- Report to council could be more about committee activities rather than presentation

8. Other items

a) Technical Question: dust particulates

- For measure of PPM, does size matter? What is measured?
- Dust fall jars collect all dust for defined period of time
- PM10 (all particles below 10 µm in size) is being measured, PM2.5 is also an option
 - PM2.5 is more suited to measuring particulate matter from combustion processes
 - PM10 includes but does not separately measure particles under 2.5 µm in size
 - PM10 monitoring started around 20+ years ago when the MOE indicated PM10 was a voluntary measure
 - Monitoring schedule is on same calendar as rest of Ontario
- Anecdotal about dust: concerns in community about plant and impact on health and belief that this is not being monitored
 - Maybe ask Golder for an explanation of PM10 monitoring and program at plant
 - Councillors asked about this as well
- What would be involved in monitoring PM2.5?
 - Generally dust is coarser from cement plants, PM10 of greater concern
 - PM2.5 would involve different monitors/instrumentation
 - Concern comes up in community discussion related to incinerator

b) Under the lake excavation

- Notice sent out that this would not be pursued at this time
- Rock was intended to be used for aggregate (concrete stone) and project was not driven by need for rock for cement production but the rock could have (quality wise) been used for cement production

c) Alternative Fuels

- Demonstration trial starts week of October 1st
 - Stack and ambient air testing for several days before use of plastics/work/paper fibre, condition of permit
 - 3 days baseline, 3 days alternative fuels use then second baseline then wood (currently being used)
 - Notice to be posted on website
- Expect to see little-no change in emissions
 - Cement plant acts as massive scrubber with air passing over large amount of finely ground rock before being emitted
- Suppliers include U-pack (Ajax), Durham Disposal (Whitby), Canada Plastics (Durham)
 - Trucks will be coming from 401 and not expected to have major impact
 - All material is post recycling material (commercial waste, not residential)
- Target is 30% thermal replacement – 12tph for 12 hours
 - Plastics similar to coal in thermal properties
- Permit allows size reduction to occur on site but currently no processing of materials is being done

d) Tours

- Open to arranging alternative fuels tour, blasting tour, plant tour
- Just call before coming (need to arrange PPE, someone to guide)
- Quarry activity continues in inclement weather (not overburden activity though)

e) Plant 50th Anniversary

- 2018 represents the 50th year since the cement plant opened in Bowmanville

9. 2018 CRC Meetings

- December 4th @ 5pm