

St Marys Cement Community Relations Committee

Meeting Minutes

Tuesday April 9th, 2019

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
Yhon Downie, *Quarry Manager*, St Marys Cement
Jeff Mitchell, Port Darlington Community Association
Jim Storey, *Operations Manager*, St Marys Cement
Ruben Plaza, *Environmental Manager*, St Marys Cement
Tanya Pardy, *Human Resources Manager*, St Marys Cement
Kim Lendvay, *Senior Environmental Officer*, MOECC
Pauline Witzke, Port Darlington Community Association

Guests: Sammy Imasuen, *Human Resources Representative*, St Marys Cement

Regrets: Jim Grimley, Wilmot Creek Homeowners Association
Luis Urbina, *Environmental Manager*, St Marys Cement
Joe Neal, Councilor, Municipality of Clarington

1. Distribution of Agenda

2. Low Carbon Alternative Fuels

a) Material

- Up to 96 tonnes/day consisting of wood chips
- Non-recyclable materials being reclaimed
- Trial for other fuels

b) Enclosed system

- Brought in by truck
- Truck attached to enclosed feeder system

c) Emission limits

- In-stack emission limits
- Testing found conventional fuel results and low carbon fuels results and compared with the ECA limits

- Detection limits were used for some of the items within the ITEQ for dioxins and furans to compute the performance results
- ECA limits borne out of low carbon fuels regulation (A7 for instack performance limits for processes that incinerate waste – section for cement plants)
- Particulate matter (under 44 microns)

d) Usage

- Have not reached limit (about 1500 tonnes per month)

e) Modelling for contaminants of interest

- Selected a few for presentation
- Mercury, total dioxins and furans below conventional fuel but benzene
- Source testing RWI Air (Air Quality Consulting Group from Guelph – stack testing group)
- Standard Process: St Marys requests testing, pre-test plan created and submitted to MOEEE and then approved

f) Alternative Fuels Demonstration Project Overview

- Time-limited alternative fuels demonstration approved
- This is just a demonstration, not permanent usage approval
- Testing requirements for things like temperatures, raw material usages
- Assessment of statistically significant changes required and methodology laid out for how to determine causes of differences between low carbon fuels and conventional fuels
- Different industries using different fuels have different regulations

g) Schedule

- Pre-test plan submitted September 2018
- Demo project from Sept 25th-Oct 12th (baseline) and Nov 20th to Dec 10th)

h) Program Components

- Four components:
 - Fuel sourcing preparation and inspections
 - Raw feed and conventional fuel sampling
 - Kiln stack testing
 - Ambient air monitoring
- Captured baseline, and two trials of alternative fuel substitution, and post-baseline
 - Trial 1 was wood residuals, post-consumer paper and plastics unsuitable for recycling
 - Trial 2 was wood residuals from post consumer sources as well as residual plastics from industrial sources unsuitable for recycling

i) Trial results

- Tested gross caloric value, carbon, sulphur and halogens
- Halogens for trial 2 were over limit of >1% but this may have been a result of material selected for testing ****chlorine content

- Trial 1 did not meet target substitution rate so asked ministry for extension to trial and was able to meet rate in Trial 2
- Samples collected and submitted to Maxxam Analytics for testing 3 times per trial

j) Kiln Stack Testing Program

- RWDI Air Inc. conducted stack testing
- Looked at TPM, and metals, Polycyclic Aromatic Hydrocarbons, dioxins and furins, dioxin like PCBs, HCl, ammoni, VOCs
- CEM for NOx, SO2, CO, O2, CO2 and Opacity
- Trial 2 was used for analysis but all results contained within the report
- Air dispersion model – maximum point of impingement were determined (most limiting effect is used to set parameter (eg. Odor, human health, etc.)
- Only combustion emissions + _____ were more than 20% of limits
- Considered not statistically significant if:
 - Below detection limit or ministry emission threshold screening procedure
 - Less than 1% of ministry limits
 - Within range of baseline
- Only NOx, SO2 and HCL presented statistically significant differences
 - NOx was lower
 - SO2 rate resulting from kiln fluctuations, not caused by alternative fuels or raw feed
 - HCL related to chlorine content of raw feed rather than fuel
- No significant differences between conventional and alternative fuels
- Mercury, total dioxins and furans and benzene presented
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3. Review of Community Concerns

- One complaint related to blasting

4. 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 on Cedar Crest Beach Road while discussions on the placement of permanent monitor are underway.

c) PM10 Results

d) Dust Fall Monitoring

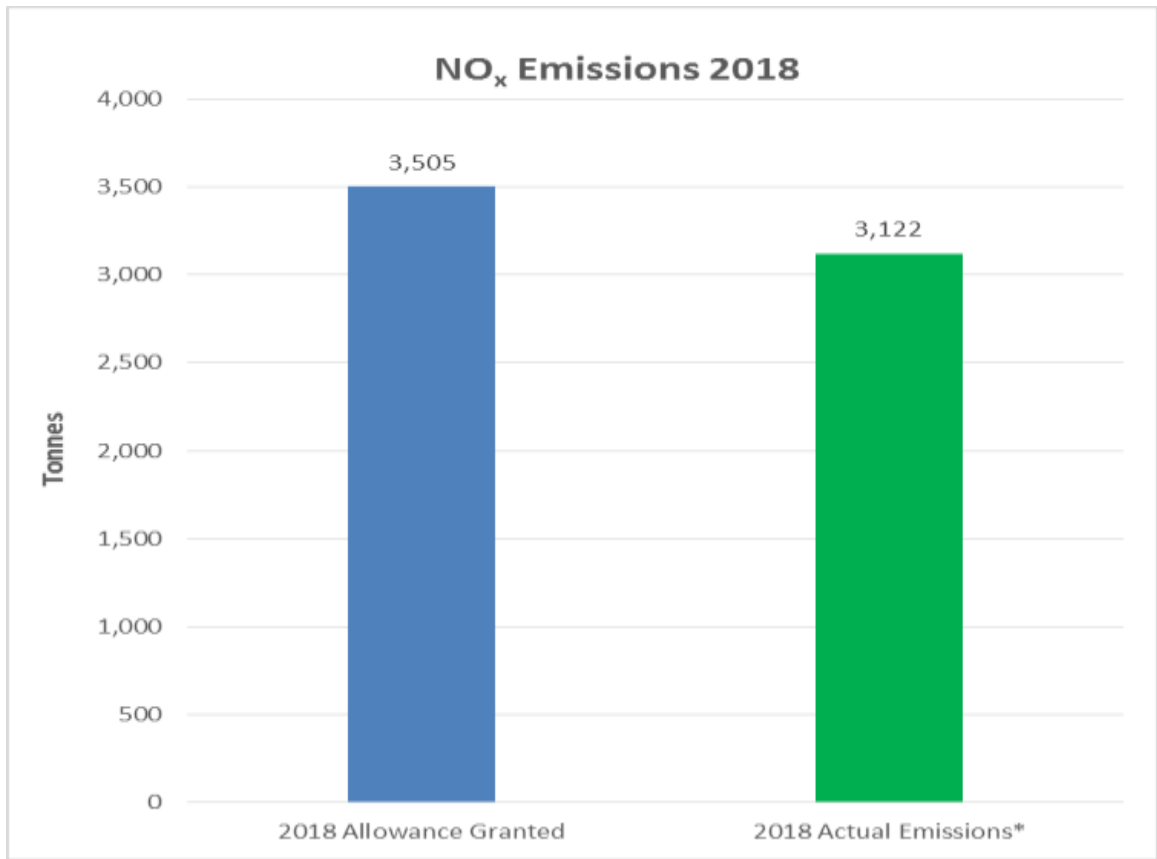
e) PM10 Exceedances

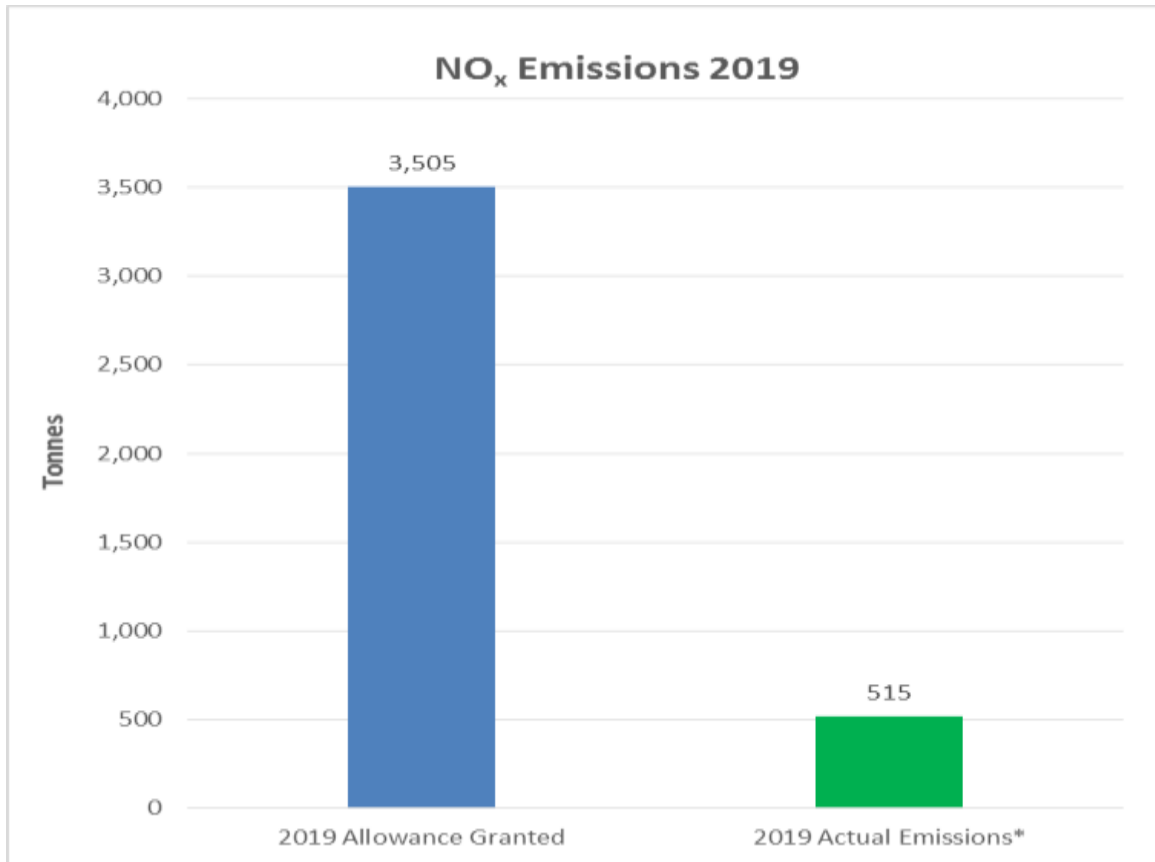
No particulate matter (dust) exceedance since last CRC meeting

f) SO₂ and NO_x Stack Emissions

- Results for 2019 cover January to March
- 2018 allowances purchased/transferred – the allowance is based on production levels and a formula under the provincial emissions reduction system
- SO₂ emissions exceeding allowance, will transfer credits from St Marys Plant

- Scrubber project has started and is currently on track to be completed in 2020





5. Quarry Operation

a) General Quarry Operations

- Producing 2,3,5 primarily until May then switch to 1,4,5
- No ground or air vibration exceedances for 2018
- Overburden stripping, screening and stockpiling
 - Stripping start in mid-April
 - No screening planned in coming months
 - Minimal berm construction remaining
 - Clay hauled as part of Port Hope Area Initiative continuing, date TBD, likely June

b) Vibration Results

- No ground or air vibration exceedances to date in 2019

6. Community Outreach

- Love of Art
- Clarington Orioles
- Ganaraska Forest Centre
- Autism Home Base Durham
- Several student classes visiting this month

7. Other items

a) New emission standards?

- Is the SMC facility subject to the same schedule as smaller emitters?
 - Yes
- Is this driving the scrubber project?
 - No, the scrubber project is motivated by the expected increase in sulphur in the raw materials

b) What is large white pile at dock?

- Salt is brought in by Cargo Dockers for use by the neighbouring municipalities

c) Alternative Fuels

- Demo project (plastics) completed in the fall
- Final reports not yet completed
- Possibly presented at next meeting
- Testing for emissions, dioxins and furins completed during trial

8. Blast schedule notification protocol

- Complaints from residents about missed notifications
- Process is confirmation of blasting in morning and email sent by Tanya on days that are not regularly scheduled days (Tuesday/Thursday)
- Sometimes notice happens later in day, if Tanya is offsite in the morning
- Follow up on adding Cherisse/Jason to the notification system

9. Emergency Route

- Route has been graded for use, to Cedarcrest Beach Road gate
- Another check of signs needed (last checked in fall), can be scheduled with Fire Chief or Traffic Department

10. Annual Report

a) Almost completed but waiting on final inputs from Luis who away this week

b) Timing

- Many groups have different timing (end of year, start of year)
- Target end of June before council recess or 2 year update at end of 2019?
- End of year meetings are crowded by other companies

c) Discussion regarding how to present CRC report to council

- Two different reports (one for the CRC to the municipality and one for operation to the municipality)
- Discuss this point for next meeting (won't be ready before June)
- Companies report on what's been done, goals, tours that have been done, meetings, etc.

- Community co-chair not comfortable introducing the annual report as a member of the community introducing the corporate report
 - Maybe have the community member talk about what the community members of the committee do in terms of monitoring emissions and protecting health and safety of community
 - Followed by corporate reporting of emissions
- Needs to be discussed by community and by corporations
 - This is a routine that has been established to meet the requirements of the community
 - Items are of importance to community and municipality as well as operation
- Maybe the modification could happen within the framing of the presentation
 - One or two slides about the CRC activities, like an abstract, and then the emissions and other information presented by the corporation
 - Community talks about how CRC is working, double checks that protocols are in place on a regular basis

d) Presentation dates recommended

- Presentation sent out in next few weeks
- Review by co-chairs
- Discussion at next meeting
- Presentation at September meeting on Monday the 9th (joint committee meeting at 9am) or Monday the 23rd (general government committee meeting at 9am)
- CRC meeting may be September 10th so September 23rd may be better date

11. Next Meeting

- Tour of Alt Fuels tentatively for June 11th before meeting
- June 11th @ 5pm
- September 10th @ 5pm
- December 3rd @ 5pm