



REPORT

**Alternative Low Carbon Fuel Use at the St Marys
Cement Bowmanville Plant**
Consultation Report

Submitted to:

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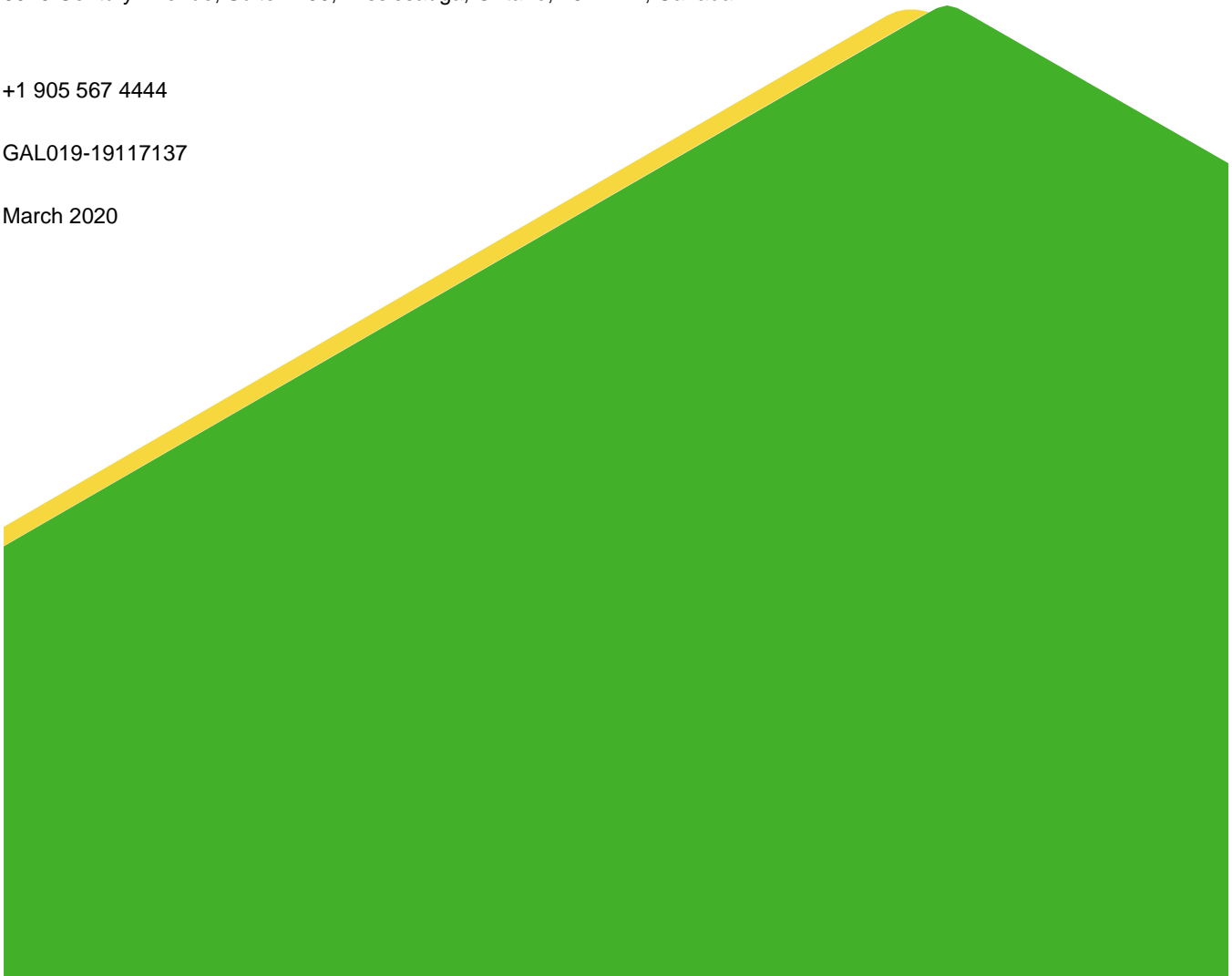
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Distribution List

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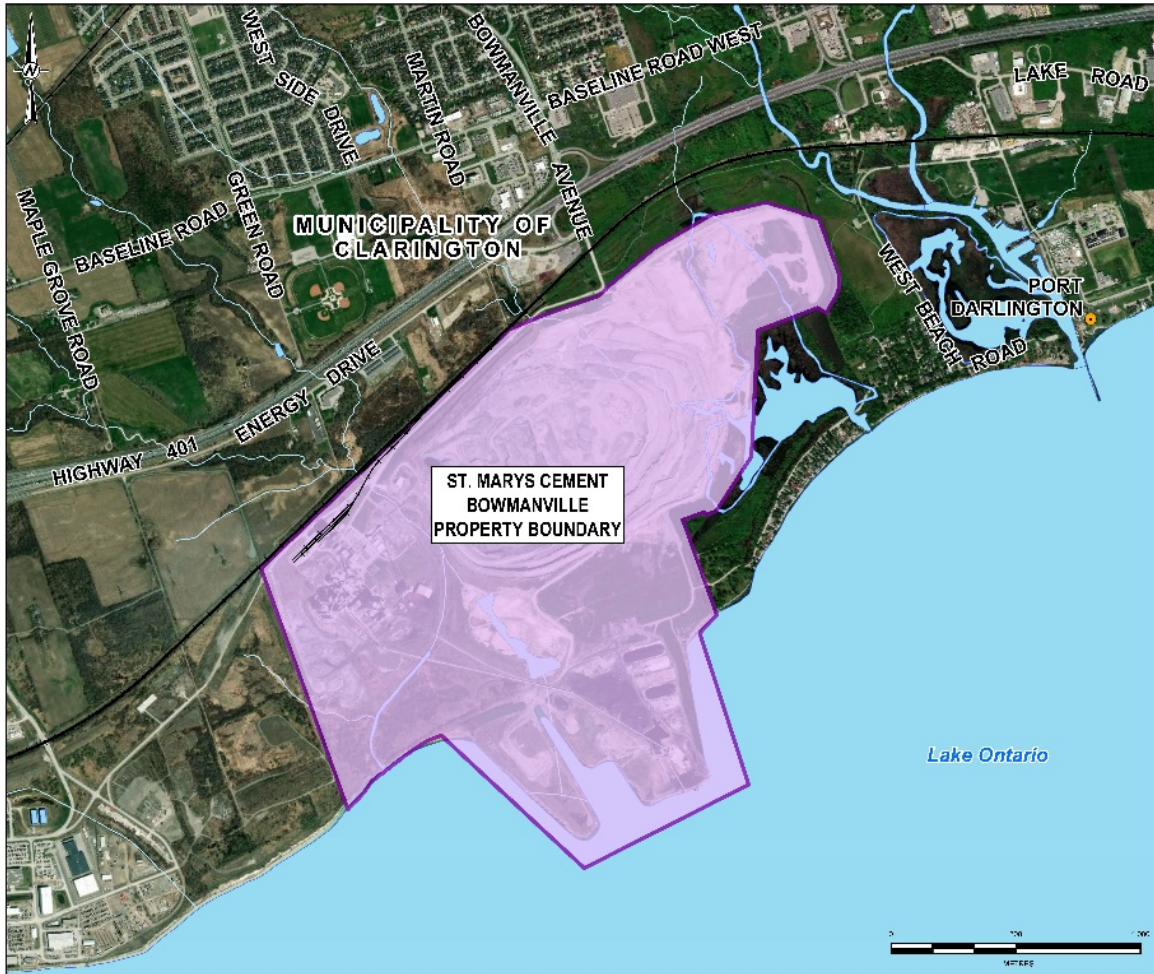
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[Please note that personal information of public stakeholders has been removed for protection of privacy]

1.0 INTRODUCTION

St Marys Cement (SMC), a company of Votorantim Cimentos North America (VCNA) is undertaking efforts to use Alternative Low Carbon Fuels (ALCFs) as an energy source for their Bowmanville Cement Plant (the Site). This initiative will help reduce greenhouse gas emissions in Ontario while diverting materials from landfills. The Site is located at 410 Bowmanville Avenue, in Bowmanville, Ontario, within the Municipality of Clarington and Durham Region (refer to Figure 1).

Figure 1: Project Site



In keeping with best practices being implemented around the world, SMC currently has an Environmental Compliance Approval (ECA) to use woody materials as an ALCF at the site and is preparing an ALCF Application under Ontario Regulation (O. Reg 79/15) of the *Environmental Protection Act*, to expand the current use of ALCFS at the Site. SMC has prepared studies and is preparing an application to support the following:

- An increase from the current 100 tonnes of ALCFs used per day to 400 tonnes of ALCFs per day, which is approximately 30% thermal replacement of the conventional fuels (coal, petroleum coke) used at the site with ALCFs;

- adding biomass, cellulosic and plastic materials derived from industrial and/or post-consumer sources, which cannot be recycled, are not considered hazardous and are not derived from animals or the processing and preparations of food, to the list of approved ALCFs at the Site based on the recent demonstration project at the site;
- installing new equipment at the Site to accommodate the ALCFs; and
- increasing the capacity of the current alternative fuels storage at the Site using enclosed containers and buildings.

SMC considers the engagement of Indigenous groups and consultation with adjacent and nearby residents / property owners to be a critical component to their operations. As a result, and in line with the requirements outlined in O. Reg 79/15, SMC has undertaken a range of consultation and engagement activities in support of the preparation of the ALCF Application.

SMC retained Golder Associates Ltd. (Golder) to support SMC with preparing the ALCF application and to support consultation activities throughout the application process. On behalf of SMC, Golder has prepared this Consultation Report, which provides an overview of all consultation and engagement activities undertaken for the Project to date. This Consultation Report captures consultation and engagement activities undertaken with members of the public and Indigenous communities up to March 5, 2020 and includes the following:

- A description of the consultation activities completed to date;
- Summaries of the information provided at the public meetings, copies of written comments submitted and records of oral comments made, either at public meetings or by other means;
- A summary of discussions that the proponent had with Indigenous communities, copies of all written comments submitted and records of oral comments made by Indigenous communities, either at public meetings or by other means;
- A description of what the proponent did to respond to concerns expressed in the course of the consultations; and
- Copies of notices, reports, and other materials prepared for and used in the public meetings.

2.0 CONSULTATION AND ENGAGEMENT ACTIVITIES

2.1 Stakeholder Identification

The Project Team has completed an array of consultation and engagement activities for the Project, with the objective of gathering input and feedback from Indigenous communities and stakeholders, and to allow for views and concerns to be addressed and considered during the Project and the preparation of the ALCF Application. Specifically, SMC has consulted and engaged with the following stakeholder groups:

- **Indigenous communities** – At the outset of the study, SMC contacted MECP requesting the Director’s assistance in confirming a preliminary list of communities that will be engaged based on proximity to the Project. The MECP responded confirming a list of communities, and therefore the following communities were included on the Project contact list:
 - Williams Treaty First Nations

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- Alderville First Nation
 - Hiawatha First Nation
 - Curve Lake First Nation
 - Mississaugas of Scugog Island First Nation
 - Beausoleil First Nation
 - Chippewas of Georgina Island First Nation
 - Rama First Nation
 - Huron Wendat First Nation
 - Métis Nation of Ontario
 - **Agencies** - At the outset of the study, the Project Team developed a list of staff from related elected officials, provincial and federal government agencies, municipal staff, and utility and transportation companies. This list included the following:
 - Elected officials:
 - Members of Parliament;
 - Members of Provincial Parliament;
 - Municipal and Regional Councillors of the Municipality of Clarington and Region of Durham;
 - Municipal staff:
 - Municipality of Clarington;
 - Region of Durham;
 - Provincial agencies:
 - Ministry of the Environment, Conservation and Parks (MECP);
 - Ministry of Indigenous Affairs;
 - Ministry of Municipal Affairs and Housing;
 - Ministry of Natural Resources and Forestry;
 - Ministry of Transportation;
 - Lake Ontario Management Unit;
 - Ministry of Heritage, Sport, Tourism and Culture;
 - Ministry of Northern Development and Mines;
 - Ministry of the Solicitor General;

- Ministry of Labour, Training and Skills Development;
- Ministry of Indigenous Affairs Ontario;
- Office of the Auditor General of Ontario (previously the Environmental Commissioner of Ontario);
- Federal agencies:
 - Fisheries and Oceans Canada;
 - Transport Canada;
 - Environment Canada;
 - Indigenous and Northern Affairs Canada;
 - International Joint Commission;
- Utilities & Transportation:
 - Durham York Energy Centre;
 - Ontario Power Generation;
 - Hydro One; and.
 - CN Rail.
- **Public Stakeholders** – At the outset of the study, the Project Team developed an initial list of members of the public and environmental groups that may have interest in the Project, including those who have participated in consultation opportunities on other projects at the Site.

In addition to these initial lists of stakeholders and Indigenous communities, the Project Team continued to update the contact list with interested parties who contacted the Project Team in response to Project notices (refer to Section 2.2) and those who attended the public meetings and signed the sign-in register (refer to Section 2.4). Additionally, some stakeholders who were initially identified had requested that their contact information be removed from the contact list from further updates about the Project.

2.2 Project Notification

2.2.1 Notice of Intention to Apply under Ontario Regulation 79/15 and Notice of Public Meeting #1

The *Notice of Intention to Apply under Ontario Regulation 79/15* was combined with the *Notice of Public Meeting #1* and issued in August 2019. The notice was distributed in the following manner:

- Published in the following newspapers
 - Turtle Island News on Wednesday August 14, 2019 and on Wednesday August 22, 2019;
 - Oshawa Whitby, Clarington This Week / Port Perry Star on Thursday August 15, 2019 and on Thursday August 21, 2019;

- Delivered to 4,468 residents / property owners within (and beyond) a 1 km radius of the property boundary of the Bowmanville Cement Plant via Canada Post's Neighbourhood Mailing / Unaddressed Admail Service on August 15, 2019;
- Distributed via email to the contact list between August 19, 2019 and August 20, 2019; and
- Letters were sent to the Indigenous communities identified in Section 2.1 above, with details on the study and inviting them to participate by attending the Public Meeting or to discuss the Project with the Project Team in a different setting.

The Notice introduced the project indicating that SMC is preparing studies and an application under O. Reg. 79/15 for the use of ALCFs at their Bowmanville Plant. The Notice invited the public to attend Public Meeting #1 and included Project Team contact information for further questions, as well as a link to the Project Website.

Please refer to Appendix A for a copy of the *Notice of Intention to Apply under Ontario Regulation 79/15 and Notice of Public Meeting #1*, as well as copies of the letters that were sent to Indigenous communities.

2.2.2 Notice of Public Meeting #2

The *Notice of Public Meeting #2* was issued in November/December 2019. The Notice was distributed in the following manner:

- Published in the following newspapers:
 - Turtle Island News on Wednesday November 27, 2019 and Wednesday December 4, 2019;
 - Oshawa Whitby, Clarington This Week / Port Perry Star on Thursday November 28, 2019 and on Thursday December 12, 2019;
- Published as an online advertisement to IP addresses in the Oshawa / Whitby / Bowmanville areas in the Torstar News Network between December 5, 2019 and December 17, 2019;
- Delivered to 4,447 residents / property owners within (and beyond) a 1 km radius of the property boundary of the Bowmanville Cement Plant via Canada Post's Neighbourhood Mailing / Unaddressed Admail Service on November 22, 2019;
- Distributed via email to the contact list between December 2, 2019 and December 4, 2019; and
- Distributed to Indigenous communities identified in Section 2.1 on December 2, 2019.

The Notice provided an overview of the study, invited the public to attend Public Meeting #2 and included Project Team contact information for further questions, as well as a link to the Project Website.

Please refer to Appendix A for a copy of the Notice of Public Meeting #2.

2.2.3 Notification of Reports Available Online

In addition to the formal project notices, and in response to requests received, the Project Team sent out emails to everyone on the project contact list on February 14, 2020 advising that the *Air Quality and Cumulative Effects Assessment Report* was now available on the Project Website. Additionally a copy of the *Carbon Dioxide Emission Intensity Report* was attached to the email and it was indicated that the *Carbon Dioxide Emission*

Intensity Report will be available online the following week [the *Carbon Dioxide Emission Intensity Report* was made available online on February 18, 2020].

Please refer to Appendix A for a copy of the email notification that was distributed.

2.2.4 Notice of Completion of the Consultation Report

The *Notice of Completion of the Consultation Report* is being issued in March 2020. The Notice will be distributed in the following manner:

- Being published in the following newspapers:
 - Turtle Island News on Wednesday March 11, 2020 and Wednesday March 18, 2020;
 - Oshawa Whitby, Clarington This Week / Port Perry Star on Thursday March 12, 2020 and on Thursday March 19, 2020;
- Being delivered to 4,639 residents / property owners within (and beyond) a 1 km radius of the property boundary of the Bowmanville Cement Plant via Canada Post's Neighbourhood Mailing / Unaddressed Admail Service the week of March 9, 2020;
- Being distributed via email to the contact list on March 11, 2020; and
- Being distributed to Indigenous communities identified in Section 2.1 on March 11, 2020.

Please refer to Appendix A for a copy of the *Notice of Completion of the Consultation Report*.

2.3 Project Website

A Project website page (<http://stmaryscement.com/BowmanvilleALCF>) was established by SMC through their overall company website (stmaryscement.com) to provide periodic Project updates. Updates provided in the Project website to date are listed in Table 1.

Table 1: Summary of Updates in Project Website

Date of Update	Summary of Update
August 2019	SMC uploaded the <i>Notice of Intention to Apply under Ontario Regulation 79/15 and Notice of Public Meeting #1</i> on August 14, 2019.
September 2019	SMC uploaded the materials presented at the public meeting including the ALCF Application Presentation and the presentation on the Annual Source Testing Demonstration Trial Results on September 6, 2019.
November 2019	SMC uploaded a Frequently Asked Questions document on November 28, 2019.
December 2019	SMC uploaded the <i>Notice of Public Meeting #2</i> on December 2, 2019.

Date of Update	Summary of Update
December 2019	SMC uploaded the materials presented at the public meeting including the Public Meeting #2 presentation on December 17, 2019.
February 2020	SMC uploaded the <i>Air Quality and Cumulative Effects Assessment Report</i> on February 14, 2020 and the <i>Carbon Dioxide Emission Intensity Report</i> on February 18, 2020.
March 2020	SMC uploaded the <i>Noise Memorandum</i> and the <i>Traffic Impact Study</i> on March 4, 2020.
March 2020	SMC will upload a copy of the <i>Notice of Completion of Consultation Report</i> and the <i>Consultation Report</i> on March 11, 2020.

As additional project materials are finalized (e.g., supporting study reports) and Project documentation are finalized, they will continue to be uploaded to the website to provide stakeholders with readily available Project information. SMC will also continue to provide status updates through the website and contact list as the Project progresses. Refer to Appendix B for a printout of the website.

2.4 Public Meetings / Open Houses

2.4.1 Public Meeting #1

The first public meeting / open house for this Project was held on Thursday September 5, 2019, between 6:30 p.m. and 8:30 p.m. at the Garnet B. Richard Recreation Complex, in Bowmanville, Ontario within the Municipality of Clarington. The public meeting was held as a drop-in format where attendees could come at any time, review the materials and speak with members of the Project Team. This public meeting was combined with the public meeting to present the results of the Alternative Fuel Demonstration Trials that were completed between September and December 2018.

Information panels were arranged in the hall that covered the following topics:

- Purpose of the open house;
- Site overview;
- An overview of St Mary Cement and the cement and concrete industry in Ontario;
- An outline of the cement production process;
- An overview of Alternative Low Carbon Fuels (ALCFs) and how they are used in cement production;
- Current approvals SMC has at the Bowmanville Cement Plant;
- A timeline of ALCFs being used and the application process at the site;
- Details on the Demonstration Project;

- Current project overview, what is SMC proposing;
- Overview of O. Reg 79/15, Alternative Low Carbon Fuels,
- Environmental benefits of ALCFs;
- Environmental studies SMC is undertaking to assess the potential environmental effects of the increased substitution;
- Overview of various monitoring practices and analytical monitoring instruments already in place at the facility including current monitoring stations;
- O. Reg 79/15 Application Process;
- Next steps and schedule; and
- How to contact the Project Team and participate in the study.

Refer to Appendix C for copies of the materials presented at the September 2019 public meeting.

Technical experts from SMC, Golder, BCX Environmental Consulting (BCX), and ECO strategy were in attendance to answer questions and document comments and concerns from attendees.

Thirty-one (31) attendees signed the sign-in register upon arrival at the public meeting. Attendees were encouraged to provide written comments through a comment form that was available at the public meeting, and comments were also provided verbally to Project Team members that were present at the open house. No written comments were received at the meeting. After the Public Meeting, all of the materials were posted on the project website (refer to Section 2.3) and the public were encouraged to submit written comments by October 4, 2019. Two written comments were received during after the public meeting (refer to Appendix D for copies of written comments received).

Comments that the Project Team received included but were not limited to the following topics:

- General questions about ALCFs and the use of ALCFs in a cement plant:
 - Questions about what materials may be used as ALCFs;
 - Concerns about competition with zero waste initiatives;
 - Questions about the types of tests / studies that have been undertaken to show that ALCFs are safe for the environment and human health;
 - Questions about the origin of ALCF materials and comments that the ALCFs should be locally sourced within the Region of Durham;
- Questions about the application process:
 - Questions about what consultation is being undertaken with the Region of Durham and the Municipality of Clarington;
 - Questions about further consultation opportunities for this application;

- Questions about the scope of this study and the difference between this process and an Environmental Assessment;
- Questions about timelines for when SMC expects to start using ALCFs;
- Questions about air quality, cumulative effects, and emissions monitoring:
 - Questions about air quality and potential air quality contaminants associated with the use of ALCFs;
 - Questions about current operations at the Plant and current emissions monitoring;
 - Questions about the temperature that the kiln operates at and temperature fluctuation;
 - Questions and concerns about what parameters are monitored and the instruments used;
 - Questions about the Durham York Energy Centre expansion project and cumulative effects
 - Questions about the methods used for emissions modelling;
 - Requests for transparency of the emissions monitoring results;
- Questions about what studies are being undertaken to consider potential environmental effects; and
- Questions about carbon dioxide emissions reductions.

2.4.2 Public Meeting #2

The second public meeting / open house for this Project was held on Tuesday December 17, 2019, between 6:30 p.m. and 8:30 p.m. at the Garnet B. Richard Recreation Complex, in Bowmanville, Ontario within the Municipality of Clarington. The public meeting was held as a drop-in format where attendees could come at any time, review the materials and speak with members of the Project Team.

Information panels were arranged in the hall that covered the following topics:

- Site overview
- An overview of St Mary Cement and the cement and concrete industry in Ontario;
- Project overview, what is SMC proposing;
- Overview of ALCFs and O. Reg 79/15
- An outline of the cement production process and how ALCFs are used in cement production;
- Environmental benefits of using ALCFs;
- O. Reg 79/15 application process;
- A timeline of ALCFs being used and the application process at the site;
- Current Site approvals;
- Where SMC is getting ALCF materials and a list of types of ALCF materials that they propose to use;
- Summary of what was heard at Public Meeting #1;

- Potential environmental effects and how SMC is considering the environment;
- Environmental monitoring at the site;
- Overview of the Carbon Dioxide Emission Intensity calculations and results;
- Details on how SMC considered potential air quality impacts of using ALCFs and details on the Air Quality Study and Cumulative Effects Assessment including the following:
 - Study area;
 - What contaminants were included in the air quality study;
 - What air quality criteria were used;
 - How cumulative effects were considered;
 - What emissions sources were included in the assessment;
 - How future air quality as a result of using ALCFs was assessed;
 - How emissions were modelled;
 - How assessment results compare to the criteria;
 - Details on how the study was conservative;
 - Overview of what the results were and what they mean;
 - Overview of why it is anticipated that future local air quality will be better than predicted;
- Overview of how SMC considered noise emissions at the site and details / results of the Acoustic Study;
- Overview of how SMC considered potential traffic impacts associated with the proposed increase in use of ALCFs;
- Overview of the ALCF storage and new equipment being proposed at the Site;
- Next steps and schedule; and
- How to contact the Project Team and participate in the study.

Refer to Appendix C for copies of the materials presented at the December 2019 public meeting.

Technical experts from SMC, Golder, BCX, HGC Engineering (HGC) and ECO strategy were in attendance to answer questions and document comments and concerns from attendees.

Thirty (30) attendees signed the sign-in register upon arrival at the public meeting. Attendees were encouraged to provide written comments through a comment form that was available at the public meeting, and comments were also provided verbally to Project Team members that were present at the open house. All of the materials that were available at the public meeting were posted on the project website (refer to Section 2.3) on the afternoon of December 17, 2019, prior to the public meeting, and the public were encouraged to submit written comments by January 20, 2020.

Three (3) written comments were received at the meeting, two (2) written comments were received after the meeting (refer to Appendix D for copies of the written comments received) and the Project Team received many comments verbally.

Comments that the Project Team received included but were not limited to the following topics:

- Questions about ALCFs and the use of ALCFs in a cement plant:
 - Comments regarding this project impeding zero waste initiatives;
 - Questions and comments regarding the specific types of ALCF materials being proposed and their relation to O. Reg 79/15;
 - Questions about the ALCF inputs and impact on the quality of the product (cement produced);
 - Questions about how SMC intends to test ALCFs to meet regulatory requirements;
- Comments about carbon dioxide emission reductions:
 - Comments regarding the benefit of reducing carbon dioxide emissions being outweighed by the potential environmental and public health impacts;
 - Comments about the scope of the Carbon Dioxide Emission Intensity study;
- Questions and comments about the Air Quality and Cumulative Effects Assessment;
 - Requests for predicted total annual emissions of contaminants;
 - Questions about the air quality standards that were used;
- Questions regarding the site's ECA limits and ambient air monitoring requirements;
- Questions about the difference between SMC's Bowmanville Plant and the DYEC;
- Comments about the scope and scale of the Demonstration Project;
- Requests to review technical reports; and,
- Requests for the application to be made available on the Environmental Registry.

2.5 Indigenous Engagement

As indicated in Section 2.1, letters were sent to the following Indigenous communities at the outset of the study with details on the work being undertaken and inviting them to meet with the Project Team and again in advance of Public Meeting #2:

- Williams Treaty First Nations
- Alderville First Nation
- Hiawatha First Nation
- Curve Lake First Nation
- Mississaugas of Scugog Island First Nation

- Beausoleil First Nation
- Chippewas of Georgina Island First Nation
- Rama First Nation
- Huron Wendat First Nation
- Métis Nation of Ontario

Huron Wendat First Nation was the only community to respond to any of the letters sent. Huron Wendat First Nation inquired if any archaeology is anticipated to be part of this initiative. A response was provided indicating that archaeology would not be undertaken as part of this application but a Stage 1 Archaeological Assessment will be completed for construction of the future storage building and that SMC will be in touch with Huron Wendat First Nation to provide further details and discuss the opportunity for the community's participation at that time.

2.6 Agency Meetings

2.6.1 MECP

April 2019

On Thursday April 11, 2019, Project Team members from SMC and Golder participated in a Pre-Submission Consultation Meeting with the MECP's Permissions Branch at the MECP Office in Toronto. The purpose of this meeting was to provide MECP an overview of the Site, including the current approvals and confirm next steps in obtaining permanent approval to use ALCFs.

SMC discussed the application process options for adding materials (specifically plastics) to their approved list of ALCFs at the Site with the intention to increase their substitution rate to 400 tonnes of ALCFs per day (approximately 30% thermal replacement). SMC indicated they will move forward with the O. Reg 79/15 ECA application.

October 2019

On October 21, 2019, Project Team members from SMC met with MECP during a regular update meeting with their MECP Senior Environmental Officer at the Site, and provided an update on the following:

- Overview of the current project and proposed application under O. Reg 79/15
- Consultation
 - Overview of comments received to date
 - Stakeholder meetings
- Ongoing Air Quality Assessment and Cumulative Effects Assessment
- Overview of the Carbon Dioxide Emission Intensity Report
- Other environmental studies being undertaken to support the application
- Next Steps
 - Public Meeting #2

January 2020

On January 31, 2020, Project Team members from SMC and Golder participated in a second Pre-Submission Consultation Meeting with the MECP's Permissions Branch at the MECP Office in Toronto. The purpose of this meeting was to provide MECP an update on the project including a summary of consultation activities, comments received and supporting studies prepared, and provide details on how comments are being addressed in the application. The Project Team discussed the application requirements and supporting documentation that will be provided to MECP, including the amendment to the current Air ECA, updates to the Emission Summary and Dispersion Modelling Report, a Fuel Handling Procedures Document and posting of the application on the Environmental Registry. MECP confirmed that the application will be posted on the Environmental Registry for public comment period once the application is considered complete.

2.6.2 Municipality of Clarington

August 2019

On August 27, 2019, Project Team members from SMC and Golder met with staff from the Municipality of Clarington as well as elected officials including Councillor Joe Neal and Mayor Adrian Foster. Councillors Ron Hooper and Corinna Traill were unavailable to attend the meeting. The purpose of the meeting was to provide municipal staff, Ward Councillors and the Mayor an opportunity to preview the materials that were being made available at the Public Meeting in September. This provided the opportunity for questions and discussion and for the Project Team to take into consideration municipal comments prior to finalizing the displays. A summary of discussion points from the meeting included the following:

- Discussion regarding other plants that are using ALCFs in Ontario;
- Questions about dioxin and furan emissions with the increased use of ALCFs;
- Questions about the origins of ALCFs;
- Questions about new equipment to be used to support the increased use of ALCFs;
- Questions about the air quality modelling and cumulative effects associated with the DYEC, including the proposed DYEC expansion (2019 Streamlined EA to increase processing from 140,000 tonnes per year to 160,000 tonnes per year);
- Questions about polyvinyl chloride (PVC) plastics;
- Questions about SMC's current air quality monitoring practices, and discussion on PM₁₀ vs PM_{2.5}, benzo-a-pyrene, and stack emissions;
- Discussion on other strategies that SMC is considering to reduce emissions;
- Suggestion was made by the municipality to include formal comment period time frames; and
- Questions about the next steps in the process;

December 2019

On December 3, 2019, Project Team members from SMC, Golder, BCX and Eco-Strategy held a second meeting with staff from the Municipality of Clarington as well as elected officials including Mayor Adrian Foster. Councillors Joe Neal and Ron Hooper were invited but did not attend the meeting. The purpose of the meeting was to provide municipal staff and the Mayor an opportunity to discuss what SMC has been working on, the types of comments

received at the first public meeting, and how SMC has tried to address those comments. Additionally, it was an opportunity for staff to preview the materials that were being made available at the Public Meeting in December. A summary of discussion points from the meeting included the following:

- Discussion regarding a potential trade-off of reducing greenhouse gas (GHG) emissions for potential impacts to local air quality;
- Questions regarding the differences in the application process and monitoring practices between SMC's Bowmanville Plant and the EA for the DYEC;
- Discussion regarding the contaminants that were assessed as part of the Air Quality and Cumulative Effects Assessment;
- Discussion regarding the method that was used for the Air Quality and Cumulative Effects Assessment including what background assumptions were made;
- Discussion regarding trucks entering and exiting the site;
- Discussion regarding what ECAs the Bowmanville Plant will have after the completion of this application process and MECP approval; and
- Discussion regarding next steps.

2.6.3 Region of Durham

September 2019

On September 23, 2019, Project Team members from SMC, Golder, and BCX met with staff from the Region of Durham. This meeting was held after Public Meeting #1 and the purpose of the meeting was to provide regional staff the opportunity to discuss what SMC has been working on, the types of initial comments received at the first public meeting (to date, although comments were still being received), and how SMC will be working on addressing those comments. This was also an opportunity for the Project Team to discuss the data requirements from the Region for the purposes of the Cumulative Effects Assessment. A summary of discussion points from the meeting included the following:

- Discussion regarding the O. Reg 79/15 application process and what to expect throughout the process;
- Discussion regarding the origin of ALCF materials and how SMC can work with the Region to use Durham's ALCF materials;
 - It was noted that the Region of Durham is unlikely to have enough available ALCFs to be the sole supplier for SMC;
- Discussion regarding types of materials that qualify as ALCFs that will be included in the application;
- Questions regarding operations and how ALCFs will be managed during kiln shut-downs; and
- Discussion regarding next steps.

December 2019

On December 3, 2019, Project Team members from SMC, Golder, BCX, and Eco-Strategy held a second meeting with staff from the Region of Durham. This meeting was held in advance of Public Meeting #2 and the purpose of

the meeting was to provide regional staff an opportunity to discuss how the Project Team has been working on addressing public concerns in the application process and the details of the environmental studies that SMC has been preparing, including the Air Quality and Cumulative Effects Assessment. Additionally, it was an opportunity for staff to preview the materials that were being made available at the Public Meeting in December. A summary of discussion points from the meeting included the following:

- Discussion regarding origins of ALCF materials and SMC working with the Region to use Durham's ALCF materials;
 - Discussion on fuel mixes, what the Region may be able to provide and other destinations for certain fuels;
 - It was noted that the ALCF ECA, if approved, would not allow materials that can be recycled;
- Discussion regarding the origins and delivery of current conventional fuels;
- Discussion regarding the ALCF permitting processes in other Provinces in Canada;
- Discussion regarding the Carbon Dioxide Emission Intensity results;
- Discussion on SMC's current monitoring practices at the site; and
- Discussion regarding next steps.

2.7 Community Relations Committee

SMC has a Community Relations Committee (CRC) that typically meets quarterly with SMC at the Site to discuss information about the Site, operations, and the local community. The meetings are held in an open forum manner with members of the CRC, which include local community residents (specifically neighbouring communities of Port Darlington and Wilmot Creek), municipal Councillors, and representatives from SMC.

June 11, 2019

SMC met with the CRC on June 11, 2019 as part of their regular meeting schedule. At this meeting, SMC invited Project Team members from Golder and BCX to attend the meeting to introduce the Project. The Project Team provided a presentation with an overview of ALCFs, an introduction to the proposed project, and provided the opportunity for questions and discussion on the information presented. At this meeting, Councillor Joe Neal was in attendance.

December 2019

SMC met with the CRC on December 3, 2019 as part of their regular meeting schedule. At this meeting, SMC invited Project Team members from Golder, BCX and Eco Strategy to attend the meeting to provide a project update. The Project Team provided a presentation with the draft Public Meeting information panels and provided the opportunity for questions and discussion on the information presented. At this meeting, Councillor Neal was in attendance.

A summary of discussion points from the meeting included the following:

- Request for the Air Quality Study and Cumulative Effects Assessment to include the area northeast of the site, the residential subdivision north and east of the intersection of Baseline Road and Liberty Street South;

- Questions about the predicted Air Quality Study and Cumulative Effects Assessment results and if the results are expected to be close to the measured data;
- Discussion regarding the mix of ALCF materials that would be used and that it would not be 100% plastics;
- Questions about other cement plants in Canada and their use of ALCFs;
- Questions about what initiatives SMC is pursuing to reduce tail pipe emissions at the Site; and
- Questions about where the ALCF materials that SMC is taking in would end up if SMC did not take it (i.e. would the materials end up at a landfill or at the DYEC).

February 12, 2020

SMC met with the CRC on February 12, 2020 as part of their regular meeting schedule. At this meeting, SMC invited Project Team members from Golder and BCX to attend the meeting to provide a project updating including a summary of Public Meeting #2, an overview comments received to date and how they have been addressed, a status update on the ECA Application, and next steps in the project. The Project Team provided a presentation and provided the opportunity for questions and discussion on the information presented. At this meeting, Councillor Neal was in attendance.

A summary of discussion points from the meeting included the following:

- Discussion regarding making study reports available on the Project Website;
- Discussion regarding ALCF application process and timelines; and,
- Discussion about how comments are being addressed in the application.

3.0 HOW THE PROJECT TEAM ADDRESSED COMMENTS AND CONCERNS

Throughout the Project, the Project Team has actively sought feedback from stakeholders, including members of the public, municipal staff and agencies, and Indigenous communities. The O. Reg 79/15 application process requires two main consultation opportunities, including Public Meeting #1 and Public Meeting #2 (described further in Section 2.4). In addition to these two main opportunities, the Project Team held meetings with staff from the Municipality of Clarington and the Region of Durham, met with MECP (Section 2.6), and took opportunities to present about the Project at CRC meetings (Section 2.7). In addition to holding these consultation sessions, seeking feedback and responding to comments at Public Meetings, and responding to questions and comments directly, the Project Team also addressed comments as follows:

- As the Site is in close proximity to the DYEC, through initial feedback about the project, it was clear that stakeholders had interest in the potential cumulative effects of the Project. SMC retained BCX to prepare an Air Quality Study and decided to expand the assessment to a Cumulative Effects Assessment. The assessment was prepared in a conservative manner, representing worst-case daily emissions. The results of the assessment were presented at Public Meeting #2 and when the report was made available online SMC notified the contact list for this Project.
- Comments were received about the origin of ALCFs and that locally sourced ALCFs would be preferred. To address this comment, SMC met with the Region of Durham to discuss using ALCFs from the Region and SMC will continue discussions with the Region going forward.

- Comments were received about Contaminants of Potential Concern (CoPCs) and areas close to the plant. To address this comment, results of the Air Quality and Cumulative Effects Assessment were presented based on five communities in close proximity to the plant.
- Comments were received about specific air quality contaminants (PM_{2.5}, dioxins, furans, and dioxin-like PCBs) and therefore at Public Meeting #2, the cumulative results of those specific contaminants were highlighted and results were presented in the *Air Quality and Cumulative Effects Assessment Report*. Additionally, SMC is preparing to advance the addition of a Wet Scrubber to their plant to further reduce air quality contaminants.
- SMC is aware of municipal interest in potential traffic impacts associated with changes at the site and therefore AECOM Canada Ltd., on behalf of Golder Associates Ltd, prepared a Traffic Impact Study to assess potential traffic impacts. The study concluded that level of service of traffic operations at the intersections adjacent to the site (Highway 401 and Bowmanville), are not a result of the additional volume of traffic that would be generated as part of the expanded use of ALCFs. The results are presented in the *Traffic Impact Study* which is available on the project website.
- SMC is aware of their neighbours' concerns regarding noise at the site and therefore retained HGC Engineering to prepare a technical memorandum on noise emissions from ALCF Operations. The memorandum outlined associated noise sources as part of the ALCF application and concluded that the sound levels are dominated by existing equipment / operations unrelated to the ALCF operations and will remain unchanged and within the applicable MECP limit. The results are presented in the *Noise Memorandum* which is available on the project website.

SMC will continue to meet with the CRC and present updates on the application and eventually the ongoing using of ALCFs. SMC will also continue to respond to comments received about this application and the use of ALCFs at the Site.

4.0 CORRESPONDENCE SUMMARY TABLE

Comments on the Project have been requested and encouraged by the Project Team through the various consultation and engagement activities completed for the Project. A table has been prepared to provide a detailed record of all correspondence received or sent in relation to the consultation and engagement activities for the Project. The correspondence summary table is presented in Appendix E and is current to March 5, 2020.

5.0 CLOSURE AND NEXT STEPS

Consultation and engagement activities for the Project have included Project notifications via addressed email, mail, Canada Post Neighbourhood Mailing / Unaddressed Admail, and the project website, as well as public meetings / open houses, agency / municipal meetings, phone calls, e-mails, website updates. These efforts have been completed by the Project Team to undertake early and meaningful consultation and engagement with persons and groups who may be affected or have an interest in the Project. SMC understands that early and meaningful consultation and engagement is an integral component of the Project planning and approvals processes, and it is a way for SMC to continue building a relationship of mutual respect and trust with the community in which the Project is located.

SMC has considered feedback received to date in ongoing Project planning and design. In response to comments received during the various consultation and engagement activities, including the public meetings / open houses

and meetings with municipal staff and the CRC, SMC adjusted and augmented the technical studies completed for the Project to reflect key areas of stakeholder concern (e.g., air quality and cumulative effects assessment).

This Consultation Report is being made available on the Project website for public viewing. After this report is made available, the following activities are planned regarding the submission of the application:

- Preparation of ALCF Application package, including all supporting documents;
- Submission of the ALCF Application package to MECP;
- MECP confirmation of completeness of the package;
- MECP to post the application on the Environmental Registry of Ontario (ero.ontario.ca) which will be available for a public review period;
- MECP to make a decision if the application is approved.

During MECP's review period and going forward, SMC will continue to provide Project notifications through the Project website and Project Contact list.

Signature Page

Golder Associates Ltd.



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SS/SC/wm

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APPENDIX A

Project Notification

APPENDIX B

Project Website

APPENDIX C

Public Meeting Materials

APPENDIX D

**Copies of Written Comments
Received**

Please note that personal information of public stakeholders has been removed for protection of privacy

APPENDIX E

Correspondence Summary Tables

Please note that personal information of public stakeholders has been removed for protection of privacy



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