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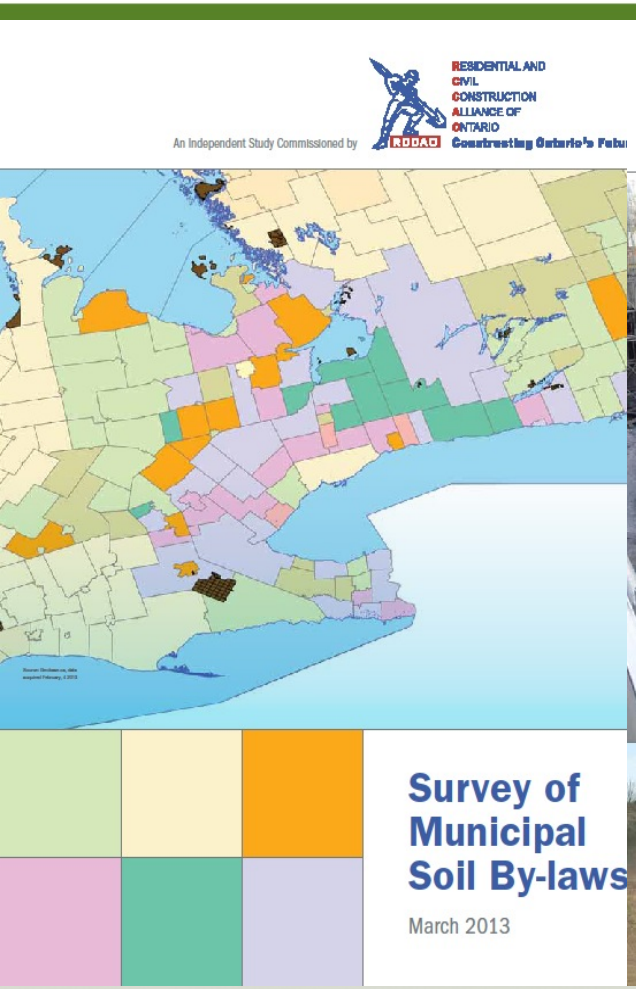
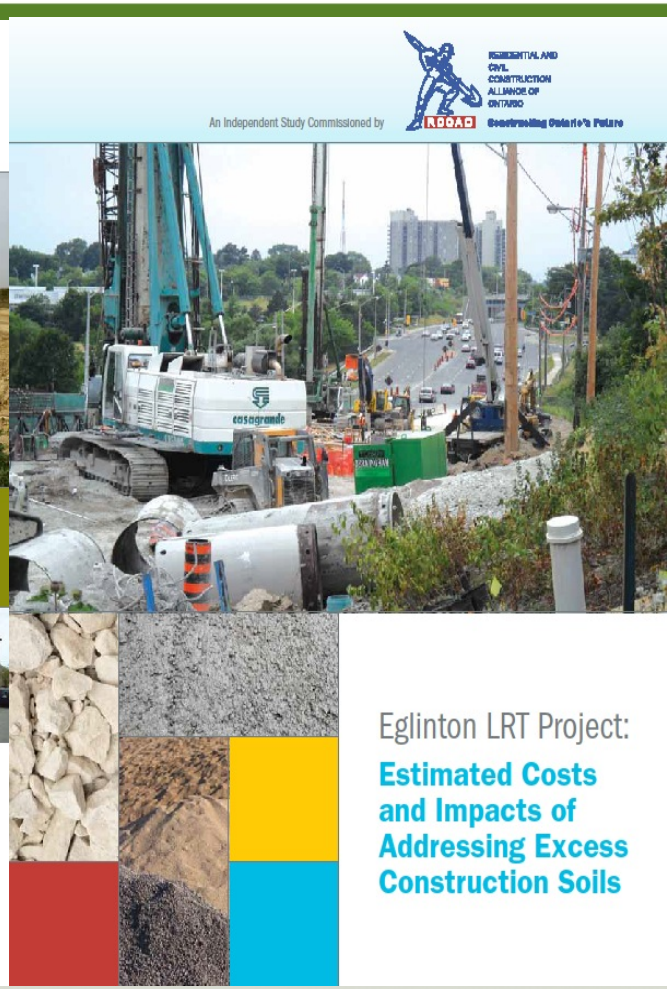
Constructing Ontario's Future

ONEIA Excess Soil Session

SOiiL
Supporting Ontario Infrastructure Investments and Lands





Al Durand
SOiiL Project Manager
September 9, 2014

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Best Management Practices Discussion Outline

- Residential and Civil Construction Alliance of Ontario (RCCAO) Background
- Ontario Historical Perspective
- The Key Issues Involved
- What is Required to Better Handle Excess Soils in Ontario
- Soil Matching – Supporting Ontario Infrastructure Investments and Lands (SOiiL)
- Next Steps .....

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Residential and Civil Construction Alliance of Ontario (RCCAO) Background

- RCCAO mission is to address Ontario infrastructure challenges and offer solutions
- Since 2006 over 30 reports produced – visit www.rccao.com/research
- RCCAO key stakeholder in excess soil handling issues working with MOECC
- Rising cost to transport and dispose of excess soil a key factor
- Ontario needs to be more progressive in line with European jurisdictions
- The United Kingdom has a very successful model **Definition of Waste Code of Practice (COP)** based on a "Better Regulation" approach
- RCCAO released Best Management Practices for Handling Excess Construction Soils in Ontario (Version 1) November 2012
- Emphasis on industry protocols, appropriate regulatory oversight
- Municipal outreach, education and training, certification are key components

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Ontario Historical Perspective

- Excess "clean soil" handling is a complex issue in Ontario
- Accepted local handling practices tied to local (regulatory) requirements
- Jurisdictional and local municipal challenges escalate
- Regulatory focus historically on contaminated soil and Brownfield redevelopment
- Issues involving "inert fill" handled on a case by case basis
- By default O.Reg. 153/04 Table 1 criteria and RSC requirements applied
- Significant public concern and media scrutiny – dig and dump, landfilling
- Need for clear soil handling policies, practices and appropriate enforcement
- Need for sustainable approaches to beneficially reuse excess soils
- Soil Management – A Guide for Best Management Practices (January 2014)

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The Key Issues Involved

- Lack of clear policy framework creates uncertainty and liability concerns
- The large number of players involved – government, industry, local municipalities
- The need to reduce "dig and dump" and landfilling activities
- The need to implement progressive risk based approaches
- Integrating better soil handling practices into current industry development and infrastructure project approaches (efficiency, cost effectiveness)
- Level of understanding and comfort at the local municipal level
- Translate a complicated subject into appropriate outreach, education and training
- Take pilot project outcomes and adopt as standard BMPs

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What is Required to Better Handle Excess Soils in Ontario

- A timely, supporting, integrated soil policy framework across government and Ministries recognizing Ontario development and construction industry needs
- Effective implementation of new Ontario Soil Management Guide for Best Management Practices – municipal outreach and education
- Action on putting in place BMP supporting elements:
  - Municipal BMP training and Centre of Excellence type support
  - Development of a model site alteration by-law covering excess soil
  - Pilot testing of BMP applications (effectiveness, metrics)
  - Development of standardized municipal procurement practices will result in better outcomes and solutions
  - Development of soil recycling centres or depots (temporary storage)
  - Promote and support for soil matching initiatives

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Soil Matching – Supporting Ontario Infrastructure Investments and Lands (SOiiL)

- Based on very successful UK model developed by an organization called CL:AIRE Contaminated Land: Applications in Real Environments (www.claire.com)
- SOiiL launched in October 2013 (www.soiil.com)
- Both excess soil "donors" and "receivers" register and the post soil requirements based on volume, quality, timing for matching
- SOiiL users agree to follow Ontario Soil Management BMP requirements
- Key component is requirement for a Material Management Plan (MMP) that establishes a transparent, documented process

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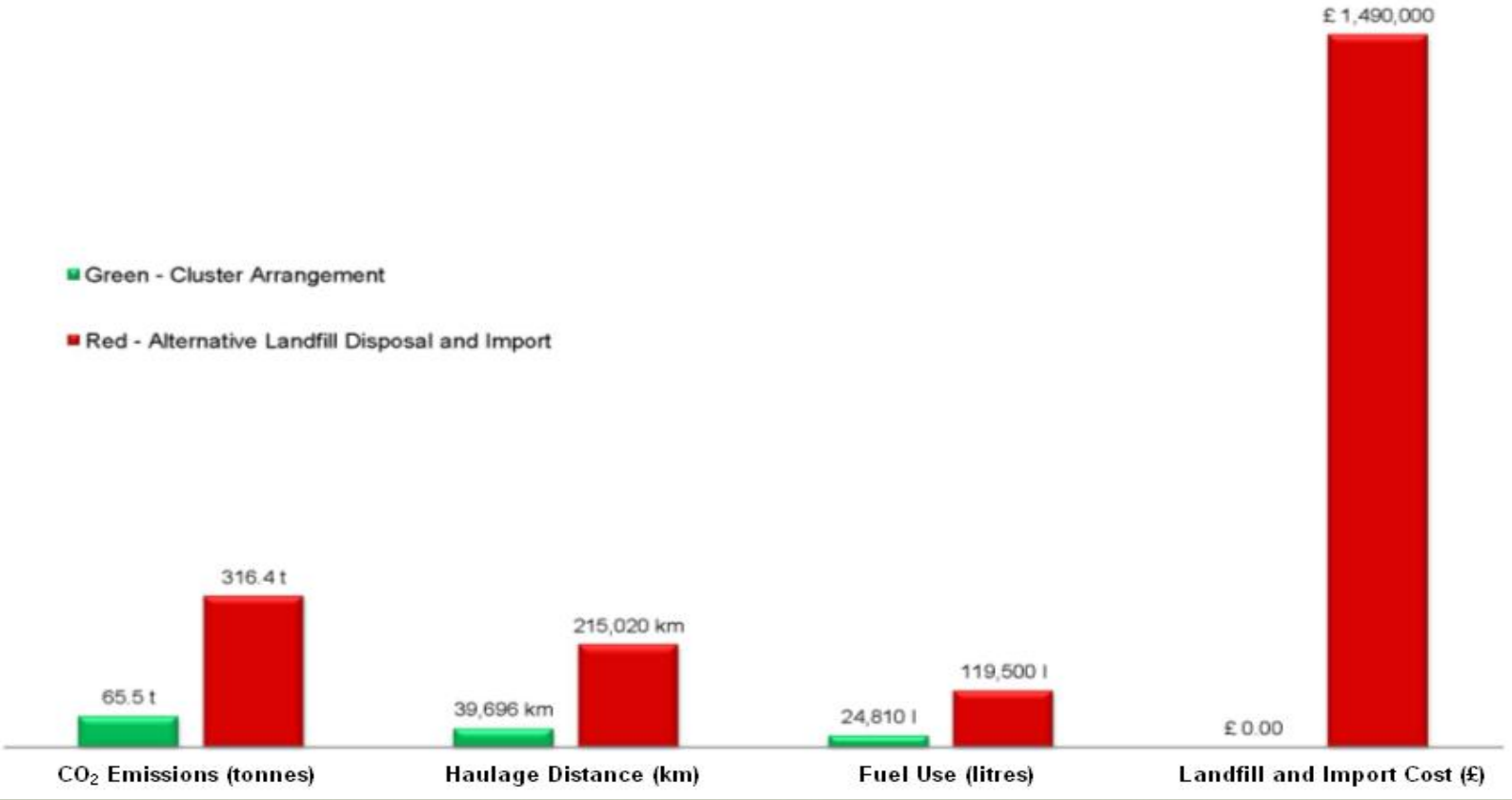
Benefits of Best Management Practices and Soil Matching – UK Experience



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Next Steps – Implementation and Timely Action

- Implement Ontario Soil Management - A Guide for Best Management Practices as quickly as possible at the municipal level in parallel with Soil Policy Review
- Development of a Municipal outreach BMP implementation plan - funding
- As part of municipal outreach :

  (1) support development and implementation of soil handling model by-law

  (2) support development and implementation of municipal procurement practices encouraging beneficial re-use of excess soils

  (3) promote pilot testing of BMP's and creation of local soil recycling centres