

	<u>Name</u>	<u>Company</u>	<u>Stakeholder Category</u>
Invitees	Ian Munro	ORCGA	Staff
	Lori O'Doherty	ORCGA	Staff
	Gord Campbell (CP)	Rogers	Telecommunications
	Maureen Mountjoy (CP)	AOLS	Land Surveying
	Tony Harnett (CP)	Enbridge	Gas/Oil Distribution
	Jeremy Cook (CP) (Co-Chair)	Terra Discovery Limited	Engineering
	Greg Epp (CP)	Niagara Region	Municipal & Public Works
	Hans Peters (CP)	Utilocate	Equipment Manuf. & Suppliers
	Dina Van Veen (CP)	Enersource	Electrical Distribution
	Jeremy Long (CP)	Vivax-Metrotech	Equipment Manufacturer & Supplier
	Lisa Woolcott	Accu-Link	One Call
	Darrin Husack	Con-Drain	Excavator
	John Todorovski	TSSA	Regulator
	Corina Emde (CP) (Co-Chair)	Union Gas	Gas/Oil Distribution
	Andrew Stone (CP)	D'Orazio Infrastructure Group	Excavator
	Vince Bellissimo (CP)	Timbel Limited	Excavator
	Mario Basile (CP)	PowerStream Inc.	Electrical Distribution
	Neil McKindsey (CP)	PVS Locates	Locator
	Ruhi Sharma	MOL	Regulator
	Janice Falkner	Hydro One	Electrical Distribution
	Len Lafond	Sensors & Software	Equipment Manufacturer & Supplier
	Greg Hart	Utilocate	Equipment Manufacturer & Supplier
	Lynn Chaput (CP)	Bell	Telecommunications
	Doug McCallum	Robert B Somerville	Excavator
	Matthew Aylett (CP)	Region of York	Municipal & Public Works
	Mike Carnovale	Region of York	Municipal & Public Works
	Bav Mistry	Hydro One	Electrical Distribution
	Adam Tyler	Halltech	Equipment Supplier & Manufacturer
	Grant Piraine	One Site Locates	Locator
	Kent Trolley (CP)	Hydro One Networks	Electrical Transmission
	Sat Virdi (CP)	TSSA	Regulator
	Randy Byatt	London Hydro	Electrical Distribution
	Blair Mullin	Clearway	Excavator
	Rhui Sharma	MOL	Regulator
	Gretchen Gordon	TransCanada Pipelines	Transmission Pipelines
	David Yawney	Toronto Hydro	Electrical Distribution
	Guy Taillon (CP)	Ministry of Labour	Regulator
	Mark Thompson (CP)	Enbridge Pipelines	Transmission Pipelines
	Sanjay Chakraborty	Accu-link	One Call
	Mike Eeles	TSSA	Regulator
	Grant Piraine	OnSite Locates	Locator
	Patricia Forbes	Badger Daylighting	Excavator
	Kevin Mear	Powerstream	Electrical Distribution
	Adam Hurley	QX Locates	Locator
	Dave Martins	QX Locates	Locator
	Jim Gilmore	Enbridge	Gas/Oil Distribution
	Steve Waugh	Ontario One Call	One Call
	Ian Reece (CP)	IHSA	Safety Organization
Shonagh Woods	Bell	Telecommunications	
Dave Watson	G-Tel	Locator	
Neil Waugh	Link-Line Construction	Excavator	
Gord Butson	Robert B Somerville	Excavator	
Blair Mullin	Link-Line	Excavator	
Tony DiFabio (CP)	MTO	Engineering	
Gord Rose	Underground Engineering Services	Engineering	
	(CP) On1Call	One Call	
Matt Mayer (CP)	Aecon	Road Builder	
Kevin McKinnon (CP)	Railway Association of Canada	Railway	
Charlie Wilson	Bruce Wilson Landscaping	Landscaping/Fencing	
Jason Miron	R.V. Anderson Associates	Engineering	
Larry Maddeaux	City of Oshawa	Municipal & Public Works	
Mike Dale	Robert B Somerville	Excavator	
Zak Wahid	MultiView Locates	Locator	
Bob Hunter (CP)	Steed & Evans	Road Builders	
Steve Singer	Bell	Telecommunications	
Peter Lamb (CP)	MTO	Land Surveying	

Item#		Item	Speaker
1.0	9:00AM	Welcome, Introductions & Review Agenda	J. Cook, C. Emde
2.0	9:10AM	Review minutes from May. 5, 2015 meeting Approved: Seconded: Review minutes from July, 7 2015 Conf. Call/Webex meeting – Deferred to Sept. 10, 2015 Approved: Seconded:	J. Cook, C. Emde
3.0	9:30AM	Best Practice Proposal TR 2015-01 – Champion: Sat Virdi Update: John Todorovski Purpose: To utilize electronic devices suitable for viewing locate sheets on site during excavation. Origin/Rationale: To develop an industry standard with respect to an acceptable size of the viewing screen of electronic devices for the purpose described above. Additionally this standard shall reflect the accountability of excavators following ORCGA best practices and regulatory protocol. The industry should determine whether or not electronic devices are more or just as suitable as a paper copy of locates; namely with respect to efficiency, clarity, and validity	Sat Virdi
4.0	9:50AM	Best Practice Proposal TR 2015-02 – Champion: Darrin Husack Purpose: “Greenfield” land development excavation limit adjustments to decrease burden on locate system. Strategic dig area boundary adjustments to alleviate strain on the locate system by developing a method whereby significant clearance areas can be obtained by excavators in instances of new development of “greenfield” land. Greenfield: meaning land that is currently undeveloped and has no urban attributes or utilities previously installed. In most instances this would refer to farmland, parkland or an area of grass, trees and other vegetation set apart for recreational or aesthetic purposes in an otherwise urban environment Origin/Rationale: Excavators may adjust their dig areas by 1 meter or more, (i.e. remain a minimum of 1.0 m within the private property side of the municipal right-of way) if a clearance can be provided for the duration of grading, and sewer & water utility installation of their “greenfield” development, for all areas except where a future entranceways will be developed. Future entranceways will have standard locates obtained. In many cases in new development scenarios, large areas of previous “greenfields” are serviced for residential or commercial development. Where this occurs, hundreds of meters along existing right of ways have to be located as the development areas will encompass the existing “greenfield” lands and abut against the municipal property lines. As locates are required to encompass the area where excavations are to occur, and the entire parcel of land that is going to be developed will require to be stripped and graded, these new developments require a substantial amount of locate effort despite them being a “greenfield” (or known to have no utilities previously installed). These parcels of “greenfield” land about the municipal right-of-ways which may or may not have already been serviced; thus all surrounding municipal right-of-ways require locates to be obtained, as the excavation or dig area is to the property line/ municipal right-of-way boundary. Note: the developments themselves will only cross into the existing right-of-ways beyond the property lines if proposed new roadways are the means of access for the new development, and then only in these areas. Furthermore, because the size of these developments can be significant, the timelines to complete these projects from start to finish may exceed a year, thus requiring remarks throughout to remain compliant.	Darrin Husack

5.0	<p>10:10AM</p> <p>10:30AM</p> <p>10:50AM</p> <p>11:15AM</p> <p>11:45AM</p> <p>12:15PM</p> <p>1:00PM</p> <p>1:15PM</p>	<p>By excavators adjusting their dig areas and remain a minimum of 1 meter within their "greenfield", a substantial savings could be passed on to the locate system if an agreement can be reached that the resulting "greenfield" being developed can be viewed as clear until such time as the developing excavator releases the land with grading, sewer and water installed.</p> <p>This proposal makes the assumption that any existing utilities are installed within the municipal right-of-ways (as designed) and do not encroach into existing private property.</p> <p>Networking Break</p> <p>Best Practice Proposal TR 2015-03 – Champion: Len Lafond Proposed NEW ORCGA 3-22: Alternative Locate Method(s)</p> <p>Purpose: To include a new Practice Statement to embrace the use of alternate technology(ies) where conventional methods are unable to resolve a known or suspected utility, or, to locate a non-utility artifact which may interfere with installation or modification of a utility or structure. The glossary would require amendment to include the definition of Ground Penetrating Radar.</p> <p>Practice Statement: When electromagnetic methods of locating prove inconclusive or ineffective, particularly where there is a known utility present, or to search for non-utility artifacts, Ground Penetrating Radar (GPR) may be used as an acceptable alternative method for locating.</p> <p>Practice Description: In cases where conductive or non-conductive utilities or artifacts cannot be located using electromagnetic means, methods such as Ground Penetrating Radar can be used to determine the location of such utilities or artifacts. It is important to note that these technologies are not effective in all areas or conditions, because electrically conductive soils and materials can limit the depth of radar penetration. Users of these technologies should have the degree of knowledge and training required to operate the associated equipment and/or to interpret the results. Applicable radar frequencies range from 100 MHz to 500MHz, where higher frequencies provide higher resolution but shallower depth of penetration.</p> <p>Proposed Glossary Entry: Ground Penetrating Radar (GPR): is a non-destructive testing method that transmits electromagnetic radiation in the microwave band of the radio spectrum into the subject medium and displays the reflected signals from subsurface artifacts.</p> <p>Origin/Rationale: In an effort to harmonize Best Practices on a continental basis, to recognize the acceptance of new technology by asset owners and in the interest of due diligence, the adoption of alternate technologies is essential to ensure the principals of Damage Prevention are properly observed.</p> <p>References: -CGA Best Practices 10.0, Chapter 4, Paragraph 12. -Ear to the Ground 2014, P. 7 CCGA Harmonized Best Practices Version 1.0 "The CCGA also acknowledges the established Common Ground Alliance Best Practices(US) initiated by the Common Ground Study" -Jim Tweedie, CCGA Past Chair -Ear to the Ground 2015 P.11 Damage Prevention and Innovation "To continue to reduce the risks surrounding third-party excavations, we're looking to innovation to help us take our damage prevention efforts up another notch" -Wes Armstrong, Director of Distribution Operations for Union Gas</p> <p>CCGA NEW Best Practices from SCGA Task Team Needed: Section 1.0 – Operational Best Practices Section 3.0 – Practice of Secondary Facility Sweeps Section 4.0 – Safe Ground Disturbance Checklist</p> <p>CCGA Best Practice 1.0 Review CCGA SCGA BP – 1.2 CCGA SCGA BP – 1.9</p> <p>LUNCH</p> <p>CCGA Best Practice 2.0 CCGA SCGA BP – 2.1 CCGA SCGA BP – 2.8 CCGa SCGA BP – 2.9 CCGA SCGA BP – 2.20</p> <p>CCGA Best Practice 6.0 CCGA SCGA BP – 6.6</p> <p>CCGA Best Practice 7.0 CCGA SCGA BP – 7.4</p>	<p>Len Lafond</p> <p>J. Cook, C. Emde</p> <p>J. Cook, C. Emde</p> <p>J. Cook, C. Emde</p> <p>J. Cook, C. Emde</p> <p>J. Cook, C. Emde</p>
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1:45PM	CCGA Best Practice 3.0 CCGA SCGA BP – 3.3 CCGA SCGA BP – 3.15	J. Cook, C. Emde														
2:15PM	CCGA Best Practice 4.0 CCGA SCGA BP – 4.1 CCGA SCGA BP – 4.3 CCGA SCGA BP – 4.8 CCGA SCGA BP – 4.10 CCGA SCGA BP – 4.11 CCGA SCGA BP – 4.12 CCGA SCGA BP – 4.20 CCGA SCGA BP – 4.21 CCGA SCGA BP – 4.22 CCGA SCGA BP – 4.26	J. Cook, C. Emde														
2:45PM	UPDATE: CCGA Best Practice Review of TR's <ul style="list-style-type: none"> • Committee reviewed the 7 Low TR's submitted by the CCGA • Moving forward the BP Committee will be copied on the CCGA BP minutes and any correspondence. • See attached all documentation. • Committee approved 3 of the 7 CCGA Low TR's Best Practices <table border="0"> <tr> <td>CCGA TR 2015-01 – BP 1-17</td> <td>Approved</td> </tr> <tr> <td>CCGA TR 2015-02 - BP 3-8</td> <td>Approved</td> </tr> <tr> <td>CCGA TR 2015-03 - BP 3-14</td> <td>Opposed</td> </tr> <tr> <td>CCGA TR 2015-04 - BP 3-19</td> <td>Opposed</td> </tr> <tr> <td>CCGA TR 2015-05 - BP 4-15</td> <td>Opposed</td> </tr> <tr> <td>CCGA TR 2015-06 - BP 5-4</td> <td>Opposed</td> </tr> <tr> <td>CCGA TR 2015-07- Glossary</td> <td>Approved</td> </tr> </table>	CCGA TR 2015-01 – BP 1-17	Approved	CCGA TR 2015-02 - BP 3-8	Approved	CCGA TR 2015-03 - BP 3-14	Opposed	CCGA TR 2015-04 - BP 3-19	Opposed	CCGA TR 2015-05 - BP 4-15	Opposed	CCGA TR 2015-06 - BP 5-4	Opposed	CCGA TR 2015-07- Glossary	Approved	L. O'Doherty
CCGA TR 2015-01 – BP 1-17	Approved															
CCGA TR 2015-02 - BP 3-8	Approved															
CCGA TR 2015-03 - BP 3-14	Opposed															
CCGA TR 2015-04 - BP 3-19	Opposed															
CCGA TR 2015-05 - BP 4-15	Opposed															
CCGA TR 2015-06 - BP 5-4	Opposed															
CCGA TR 2015-07- Glossary	Approved															
2:55PM	New Business - Topics for Discussion <ul style="list-style-type: none"> <input type="checkbox"/> Clearances <input type="checkbox"/> Abandoned Plant <input type="checkbox"/> Unmarkable Plant <input type="checkbox"/> Locate Report Formats 	J. Cook, C. Emde														
3:00PM	ORCGA Update	I Munro														
3:00PM	Round Table Next meeting: To be discussed															