

Avoided Conversion of Grassland Protocol Stakeholder Meeting

Ontario & Quebec Adaptation May 25th, 2017

Agenda



- 1. Background & introductions
- 2. Protocol adaptation process overview
- 3. Protocol scope
- 4. Candidate protocol review
- 5. Stakeholder questions/discussion
- 6. Next steps



Item 1

BACKGROUND

Background



Ontario & Quebec have retained the Reserve and Partners to develop 13 offset project protocols to support their respective cap-and-trade programs

- 1. Landfill Gas
- 2. Mine Methane
- 3. Ozone Depleting Substances
- 4. Fertilizer Management
- 5. Livestock (Enteric)
- 6. Anaerobic Digestion (Organic Waste & Manure)
- 7. Organic Waste Management
- 8. Forest
- 9. Afforestation & Reforestation
- 10. Urban Forest
- 11. Grassland
- 12. Conservation Cropping
- 13. Refrigeration Systems

Climate Action Reserve



- Nonprofit founded in 2001
- Developed GHG inventory & verification protocols for commercial and industrial entities
 - Operated a public registry for hundreds of entities in California
- Launched online offset project registry in 2008
 - Developed or adapted 18 project protocols for the US and Mexico
 - Work directly informed the CA and QC compliance protocols
 - Registered hundreds of voluntary and compliance projects, generating >92M tCO₂e in GHG reductions
- <u>Partners</u>: Viresco Solutions, Brightspot Climate, Cap-Op Energy, Green Analytics, and EcoRessources

Grassland Protocol Adaptation Team (PAT)



Organizations	Names
Climate Action Reserve	 Max DuBuisson - Team Lead Trevor Anderson Andrew Craig Teresa Lang - former Team Lead; departing in June
Brightspot Climate	Aaron Schroeder - Deputy Project Manager
Viresco Solutions	 Karen Haugen-Kozyra - Technical Coordinator Tanya Maynes Alicia Klepfer
EcoRessources	Mathieu DumasNathan DeBaets

Grassland Technical Task Team (TTT)



Name	Organization
Alan Iwaasa	Agriculture and Agri-Food Canada
Brian McConkey	Agriculture and Agri-Food Canada
Tim McAllister	Agriculture and Agri-Food Canada
Sheilah Nolan	Alberta Agriculture and Forestry
Keith Paustian	Colorado State University
Rich Conant	Colorado State University
Marc-André Ouellet	MAPAQ (Quebec)
Claude Fortin	MDDELCC (Quebec)
Marni Vance	MNRF (Ontario)
Sarah Lewis	MNRF (Ontario)

Grassland Technical Task Team (TTT)



Name	Organization
David Coates	MOECC (Ontario)
Dushan Jojkic	MOECC (Ontario)
John Hutchison	MOECC (Ontario)
Shelley Hyatt	MOECC (Ontario)
Sara Peckford	OMAFRA (Ontario)
Danielle Ethier	University of Guelph
Hugh Henry	University of Western Ontario
Irena Creed	University of Western Ontario

Grassland Protocol Stakeholder Team



- Targeted group to provide feedback during the adaptation process
- Including the TTT members, >100 stakeholders from diverse sectors:
 - Government
 - Industry
 - Consulting
 - Academia
 - NGOs



Item 2

PROTOCOL ADAPTATION PROCESS OVERVIEW

Process Overview



- High level review of all "avoided conversion of grassland" (ACoG) and related protocols
- Narrow down list to 3 candidate protocols for detailed protocol comparison and review (against WCI criteria), as starting point for adaptation
- Stakeholders asked to review and comment on candidate list
- All protocols will use a common template
- Key issues to be identified prior to drafting
- Stakeholder drafts will incorporate feedback from TTT and SH review

Overall Work Plan



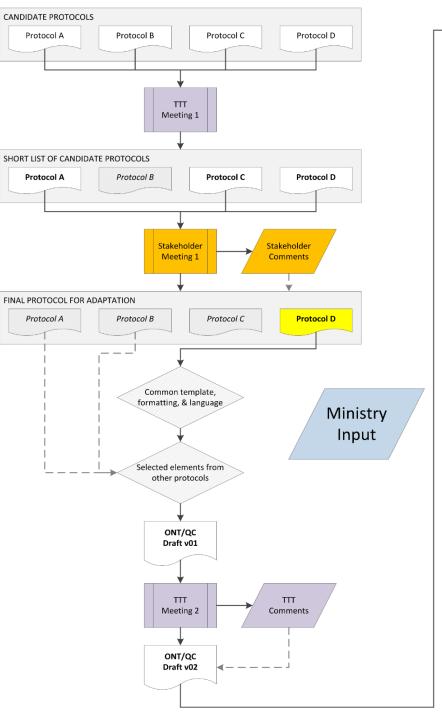
Grassland Protocol Activities	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TTT Kickoff Webinar									
Candidate Protocol Posting - input from TTT									
Candidate Protocol Selection - input from TTT and SH									
Draft Preliminary Protocol – PAT									
1 st Review of Draft Protocol by TTT & TTT Meeting									
PAT revises Draft Protocol based on TTT comments									
1 st Review of Draft Protocol by SH & SH Meeting									
PAT revises Draft Protocol based on TTT & SH comments									
2 nd Review of Draft Protocol by SH & SH Meeting									
PAT works with Ministries to revise & finalize protocol in response to comments									
Final Protocol delivered to Ministries									

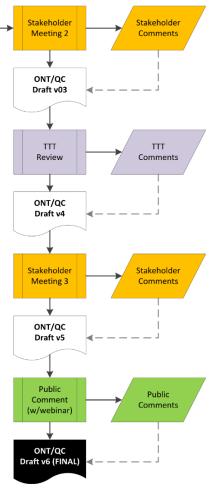
Near-Term Work Plan



Timeline (expected)	Task				
February – March	Protocol Adaptation Team (PAT) worked with Ministries to develop task teams and coordinate outreach				
	nitial meeting (webinar) held with TTTs. PAT outlined process, presented protocol candidate lists, outlined key issues and next steps.				
April – May	Short lists of candidate protocols & initial screening sent to TTT				
	TTT reviewed screened protocols and provided feedback				
May 25 th	Initial meeting (webinar) with the broader group of interested stakeholders. PAT outlines process, presents protocol candidate list and protocol comparison document, outlines next steps.				
June 2 nd	Stakeholder feedback on candidate list due				
June 11 th	Protocol candidate(s) finalized and posted				
mid-June – mid-August	PAT drafts protocol				









Item 3

PROTOCOL SCOPE

Protocol scope



From the Ontario Request for Bids:

"8. Grassland Protocol.

This protocol addresses emissions removals and reductions associated with avoided conversion of grasslands to croplands."

Protocol Scope



- The Reserve and partners were retained to <u>adapt</u> an existing "avoided conversion of grassland" protocol for use in Canada.
 - Ideally, will be applicable in <u>all</u> provinces and territories, but at minimum must be applicable to Ontario and Quebec.
- The TTT has raised concern that there is limited opportunity for "avoided conversion of grassland" in Ontario and Quebec; have urged an expansion of scope.
 - We will raise this issue with the Ministries; it is their decision to change the scope of any protocols
 - At this time, there are no plans for an expansion of scope.

Protocol Scope



- "Eligible grasslands" will likely include:
 - Areas of land dominated by native or introduced grass species with little to no tree canopy (10% or less on a per-acre basis)
 - Land suitable for conversion to crop cultivation
 - Continuous grassland cover for at least 10 years prior to project start date
 - Native grassland/prairie
 - Nonnative grassland/prairie
 - Managed rangeland and/or pastureland
 - Potentially shrubland
- We will discuss this in more depth, as part of our protocol review and comparison exercise.



Item 4

CANDIDATE PROTOCOLS

Task Ahead of Us



- Task if possible, protocol applies to all of Canada
- Follow Western Climate Initiative Offset Criteria (2010)
- Need to assess regulatory requirements in each province (additionality)
- May need additional definitions terms consistent
- Update language based on ON/QC Offsets regulation
- Refresh equations, tables and diagrams alignment with Canadian science and standards
- Standardize emission factors wherever possible
- Align with existing practices for conservation and land management

Terminology



Protocol Term	Ontario	Quebec			
"Project"	Offset Initiative	Project			
"Ministry"	MOECC	MDDELCC			
"Regulation"	Regulation concerning The Cap and Trade Program, made under the Climate Change Mitigation and Low-Carbon Economy Act	Regulation respecting a cap- and-trade system for greenhouse gas emission allowances, made under the Environment Quality Act			
"Project Developer"	Offset Initiative Operator and/or Offset Initiative Sponsor, as appropriate	Project Promoter			

Each Ministry may make their own final edits when the adapted protocols are prepared for formal regulatory adoption

Candidate Protocols (Avoided Conversion of Grassland)



Protocol / Methodology	Voluntary or Compliance	Program	Jurisdiction	Link
Grassland Project Protocol, v2.0	Voluntary	Climate Action Reserve	United States	http://www.climateactionreserve.org/how/protocols/grassland/
Methodology for Avoided Ecosystem Conversion, v3.0	Voluntary	Verified Carbon Standard	Global	http://database.v-c- s.org/methodologies/methodo logy-avoided-ecosystem- conversion-v30
Avoided Conversion of Grasslands and Shrublands to Crop Production	Voluntary	American Carbon Registry	United States & Canada	http://americancarbonregistry. org/carbon- accounting/standards- methodologies/methodology- for-avoided-conversion-of- grasslands-and-shrublands-to- crop-production

Non-ACoG Relevant Protocols



Protocol/ Methodology	Voluntary or Compliance	Program	
DRAFT Offset credits protocol for carbon sequestration projects on private land in Québec (afforestation or reforestation)	Draft - Compliance	Quebec	
DRAFT Quantification Protocol for Conversion of Annual Cropland to Perennials	Draft - Compliance	Alberta	
Methodology for the Adoption of Sustainable Grasslands through Adjustment of Fire and Grazing	Voluntary	Verified Carbon Standard	
Soil Carbon Quantification Methodology Volunta		Verified Carbon Standard	
Sustainable Grassland Management	Voluntary	Verified Carbon Standard	

- Protocols included in high-level review. However, none of these protocols are "avoided conversion of grasslands" protocols; ultimately excluded from full protocol comparison.
- Elements of these protocols may still be considered for inclusion, if applicable.

Protocol Evaluation Framework



- Quantitative assessment against WCI criteria (this is a critical component for scoring)
- Qualitative assessment, including of any modifications necessary to fully meet WCI criterion
- Results of full assessment retained, noting elements useful for adaptation (notwithstanding protocols not short listed)
- Based on TTT and SH comments, the Reserve will make a final recommendation to the Ministries for 1-3 protocols to form basis of adaptation

Quantitative Assessment



1	This protocol is useful for this item
0	This protocol is somewhat useful for this item, but needs further work
-1	This protocol either doesn't address this item, or addresses it very poorly

- Protocols are scored based on individual criteria and then weighted by overall category
- Staff have conducted an initial assessment, which will be updated based on feedback from TTT and SH
- PAT will make a recommendation to the Ministry

Grassland Project Protocol v2.0 (Climate Action Reserve)



PROS:

- Performance Standard Tests for additionality, limits on payment and credit stacking
- Highly standardized methodology that greatly simplifies quantification and monitoring
- Permanence and reversals clearly defined, ongoing monitoring and verification for 100 years after credit issuance
- Periodic assessments of rangeland health, project owners must attest that activities do not cause material violations

CONS:

- Not applicable to Canada; only U.S.
- Existing baseline emission factors may not be applicable in Canada
- Total Score = 5.1

Avoided Conversion of Grasslands and Shrublands (ACR)



PROS:

- Tests for Regulatory Surplus, Lack of Common Practice, and Financial Implementation Barrier
- Baseline management re-assessed every 5 years
- Requires an impact assessment to ensure best practices
- Applicable to projects located in Canada

CONS:

- Less standardized than Reserve protocol
- Ease of quantification is highly dependent on selected model; flexibility on choice of model
- Lack of clarity surrounding procedures for reversal events
- Total Score = 5.2

Avoided Ecosystem Conversion (VCS)



PROS:

- Documentation and monitoring reports on project design requirements and ER calculations must be provided to VB (also the case for Reserve and ACR protocols)
- Clear procedures for buffer pool allocation and credit replacement/return
- Applicable to Canada

CONS:

- Does not clearly describe ownership of emission reductions
- Does not account for all relevant SSRs or market-based leakage for ACoGs projects
- Quantification is complicated and labor intensive
- Regulatory compliance is not addressed
- Total Score = 2.9

Short Listed Protocols



PROTOCOL SHORT LIST:

- 1. Grassland Project Protocol v2.0 (Climate Action Reserve)
 - Most standardized and easy to use, but quantification model not directly applicable to Canada
- Methodology for Avoided Conversion of Grasslands and Shrublands to Cropland (ACR)
 - Applicable to Canada, but less standardized / more flexibility in choice of quantification model
- 3. Avoided Ecosystem Conversion (VCS)
 - Applicable to Canada, but quantification is complicated and labor intensive
 - Does not address critical WCI elements (e.g. regulatory compliance, clear ownership, market leakage quantification)



Item 5

STAKEHOLDER QUESTIONS & DISCUSSION



Item 6

NEXT STEPS

Submit Comments



- Stakeholder Team to review candidate protocols and protocol comparison results.
- Stakeholders to submit comments to the Reserve on the protocol comparison and selection of a protocol(s) for adaptation no later than:
 - Monday, June 5th (end of day)
 - max@climateactionreserve.org
- PAT will review all comments and submit a recommendation to the Ministries.
- PAT will notify Stakeholder Team of protocol(s) selected for adaptation and drafting start date.
 - Look for an email about this mid-June

Next Meeting



- Next Stakeholder Team Meeting (to review draft protocol):
 - Mid-September
 - Watch for email announcement with registration link in August
- Sharing documents and drafts with stakeholders on Reserve's Grassland Protocol webpage:
 - http://www.climateactionreserve.org/grassland/

Contact Information



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