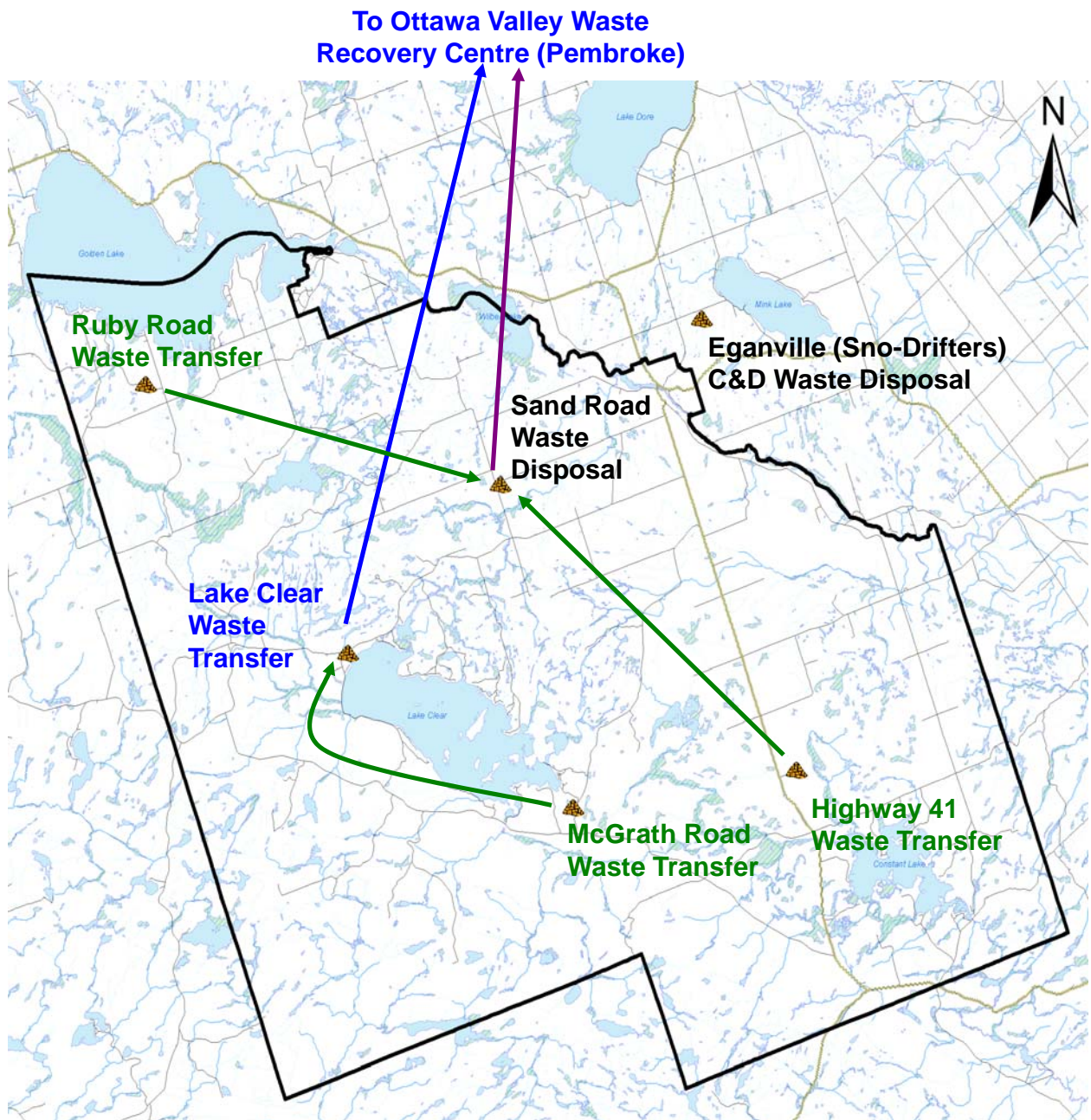




Today's Event Agenda

- Arrival and Poster Review
 - Formal Presentation of Information
 - Questions and Discussion
 - Distribution of Questionnaires
 - Please fill one out and return it to the collection area
 - Or take it home and bring it to the Township office at your convenience
 - Open House Session
-

The Current Flow of Waste



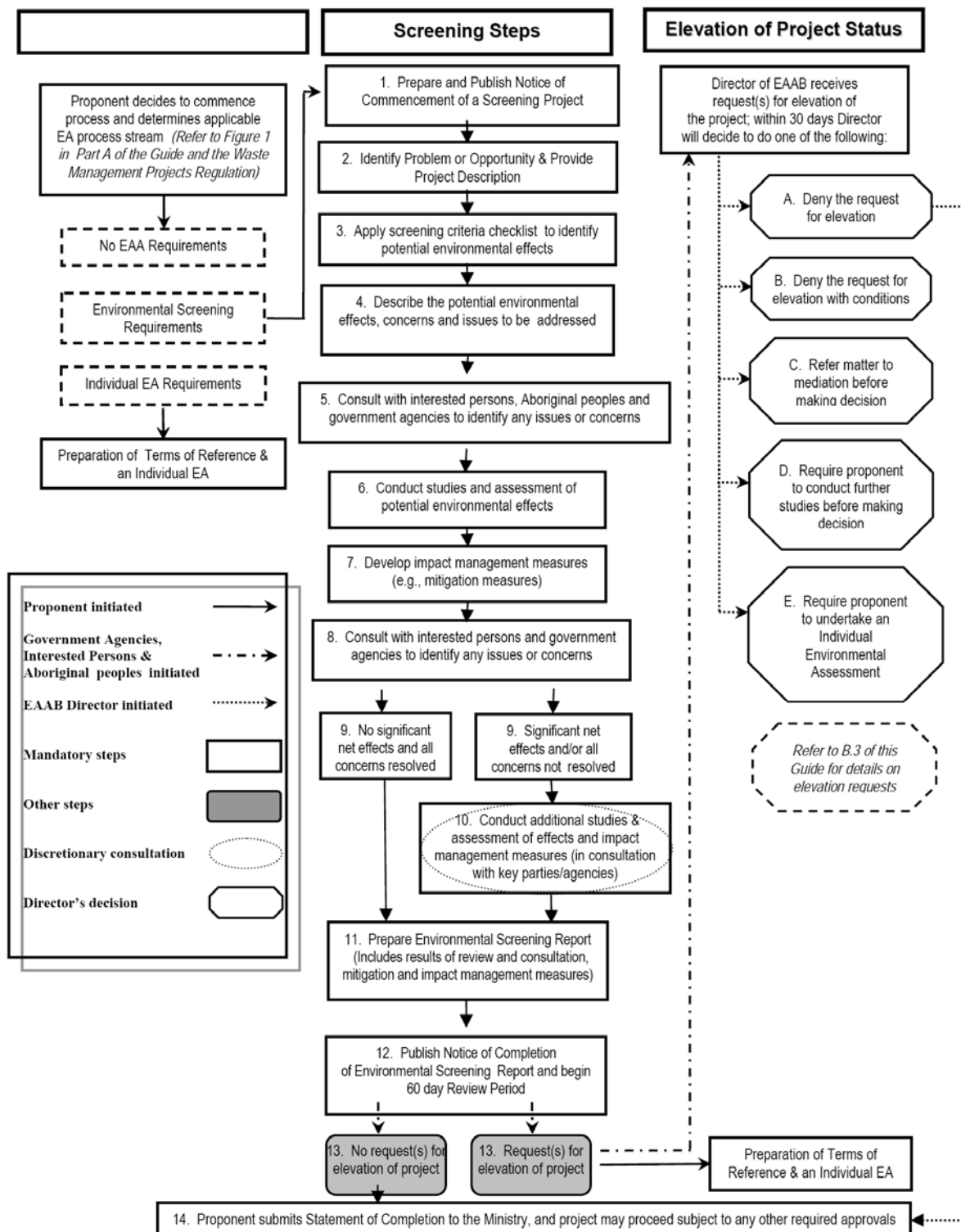
Map not drawn to scale

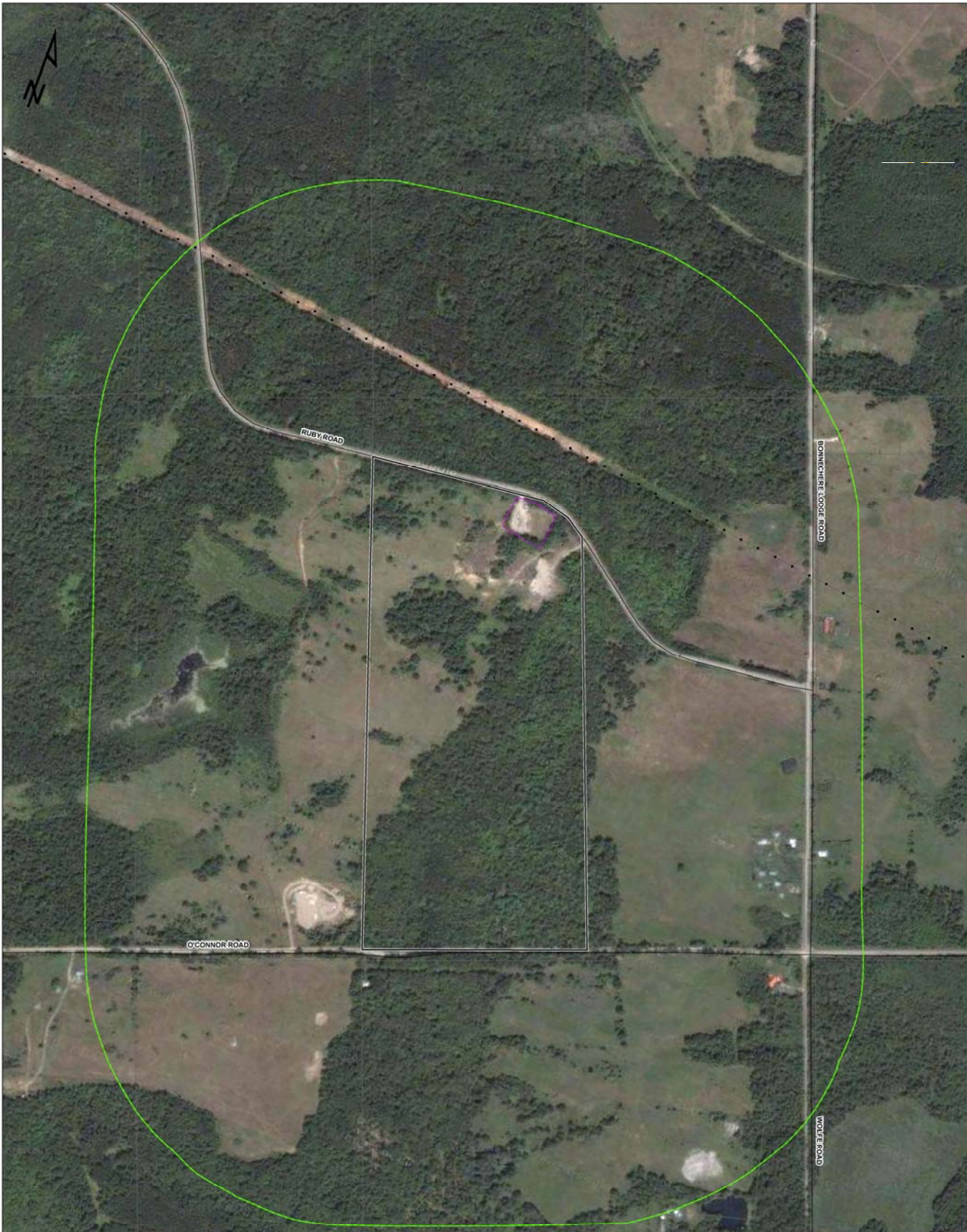
LEGEND

Waste and Recyclable Transfer	Waste and Recyclable Export	Recyclable Export



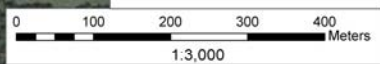
Details of Environmental Screening Process





AERIAL PHOTOGRAPH
Ruby Road
Waste Disposal Site

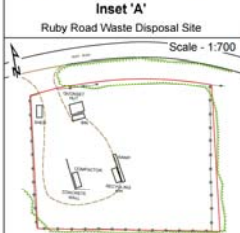
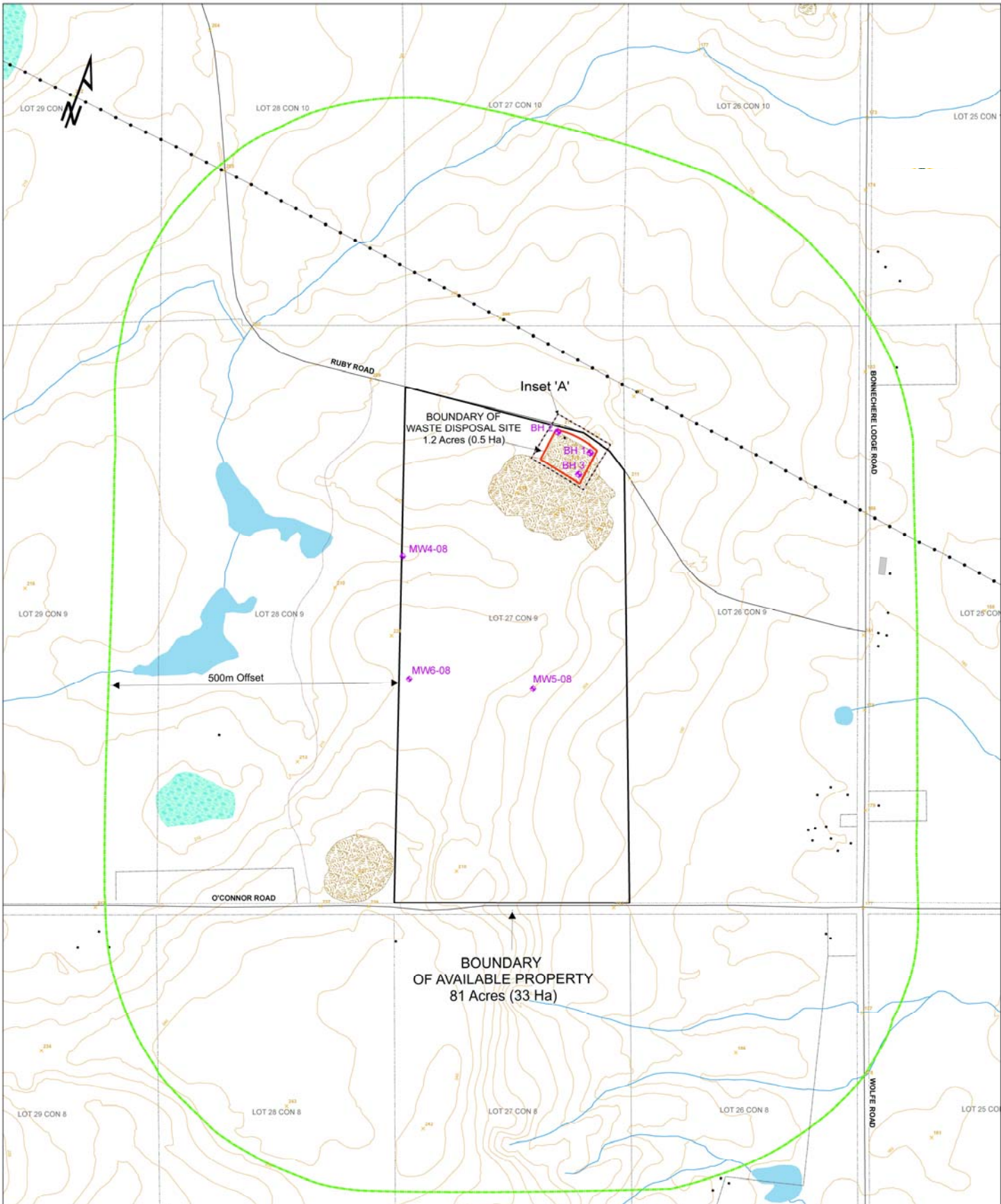
- Legend**
- Trail
 - Utility Line
 - Roads
 - 500 m Buffer
 - Township Fabric
 - Property Boundary of Proposed Site (33 Ha.)
 - Existing Waste Disposal Site (1 Ha.)



Design Objectives of a Waste Disposal Site



- **Ontario Regulation 232/98** and Ontario Ministry of the Environment's **Landfill Standards and Guidelines** are utilized
 - Designed to protect **surface water and groundwater** resources as well as other components of the environment
 - Prescribed design elements implemented to achieve the Province's **environmental protection criteria**
 - Formally **engineered** and developed using information such as **hydrogeological and geological data**
 - Serves the **disposal needs** of a specific community or region
 - Use of waste disposal space **efficiently** and extend site life as much as is practical
 - **Minimization** of potential adverse impacts
 - **Economic** for the community
-



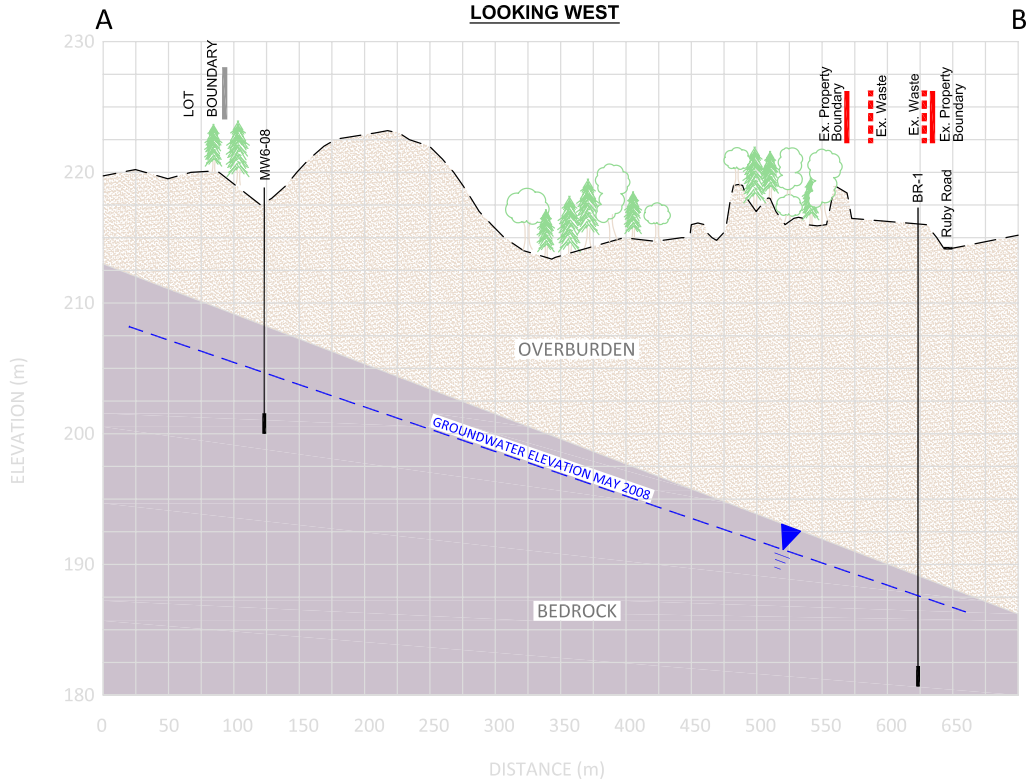
LOCATION MAP
Ruby Road
Waste Disposal Site

Legend

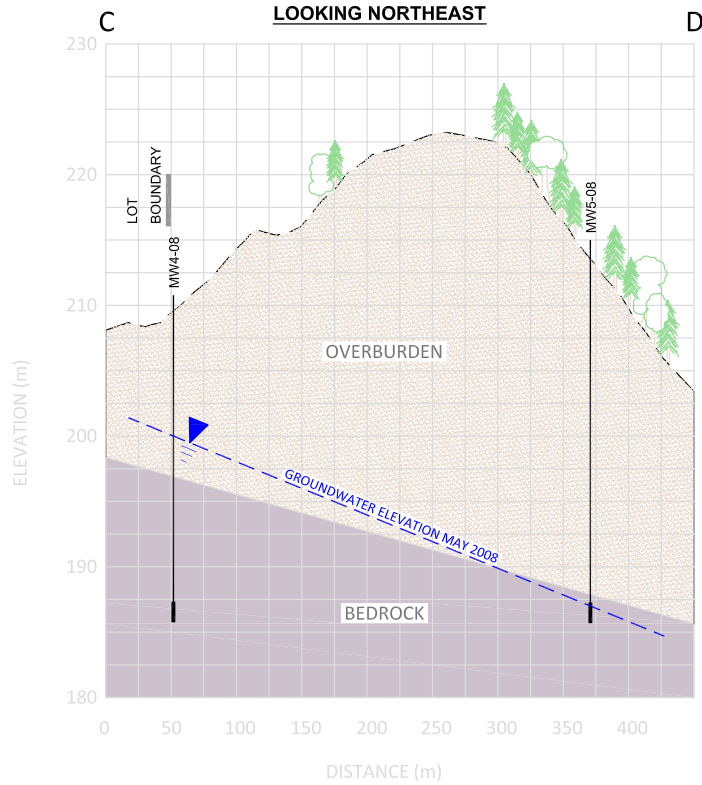
- Water Well Locations
- Spot Heights
- Buildings as Symbol
- Utility Line
- Roads
- Rivers
- Trail
- Contours
- 500 meter Buffer
- Pit or Quarry
- Building to Scale
- Township Fabric
- Water Area
- Wetland Area
- Wooded Area

0 75 150 225 300 Meters
 1:2,500

**CROSS SECTION A-B
LOOKING WEST**



**CROSS SECTION C-D
LOOKING NORTHEAST**



P.O. Box 325, 2085 Whittington Drive
Peterborough, Ontario, K9J 6Z3
Tel: 705-742-7900 Fax: 705-742-7907
www.cambium-env.com

DRAWN BY:	SNR	PROJECT No.:	1219-001
CHECKED BY:	CMT	HORZ. SCALE:	1:1500
DATE:	July 2008	VERT. SCALE:	1:150

**CROSS SECTIONS
RUBY ROAD WASTE DISPOSAL SITE
Township of Bonnechere Valley**

Environmental Screening Checklist



Might the project...

Criterion	Summary of Information	Potential Environmental Effect?		Possible Mitigation
		YES	NO	
1. Surface and Ground Water				
1.1 cause negative effects on surface water quality, quantities or flow?	<ul style="list-style-type: none"> - No surface water features near the site but the project has potential to cause negative effects on surface water - Snider's Ecological Services states that no wetland habitat exists on proposed waste site 		X	<ul style="list-style-type: none"> - storm drainage systems - monitoring of water quality - side slope modifications - diversion of rain to catchment basins
1.2 cause negative effects on ground water quality, quantity or movement?	<ul style="list-style-type: none"> - leachate is generated by precipitation percolating through waste; possible quality impact to groundwater 	X		<ul style="list-style-type: none"> - diversion of leachate prone wastes from landfill deposition - strategic placement of the waste mound to provide adequate attenuation
1.3 cause significant sedimentation or soil erosion or shoreline or riverbank erosion on or off site?	<ul style="list-style-type: none"> - Erosion and transport of soil may occur in locations of stockpiled cover material or excavation 	X		<ul style="list-style-type: none"> - shallow side slopes (<4:1) - stormwater management system
1.4 cause negative effects on surface or ground water from accidental spills or releases (e.g. leachate) to the environment?	<ul style="list-style-type: none"> - leachate from landfill could impair water quality which could then migrate off-site 	X		<ul style="list-style-type: none"> - regular monitoring of groundwater and surface water quality to identify threats to off-site water - strategic placement of the waste mound to provide adequate attenuation - stormwater diversion to catchment basins
2. Land				
2.1 cause negative effects or residential, commercial, institutional or other sensitive land uses within 500 metres from the site boundary?	<ul style="list-style-type: none"> - some residences at outer limits of the 500 metre boundary but no commercial institutional or other sensitive land uses 	X		<ul style="list-style-type: none"> - potential negative effects to be identified and mitigated; noise, odour, traffic are expected minor
2.2 not be consistent with the Provincial Policy Statement, provincial land use or resource management plans?	<ul style="list-style-type: none"> - is consistent with PPS 		X	<ul style="list-style-type: none"> - Provincial Policy Statement (PPS) of 2005 states in Policy 1.6.8.1 that "Waste management systems need to be provided that are of an appropriate size and type to accommodate present and future requirements, and facilitate, encourage and promote reduction, reuse and recycling objectives" - will provide waste management for the Township for 25 years.
2.3 be inconsistent with municipal land use policies, plans and zoning bylaws (including municipal setbacks)?	<ul style="list-style-type: none"> - is consistent with municipal OP and zoning 		X	
2.4 use lands not zoned as industrial, heavy industrial or waste disposal?	<ul style="list-style-type: none"> - rezoning has already been approved by MNR 		X	
2.5 use hazard lands or unstable lands subject to erosion?	<ul style="list-style-type: none"> - no evidence suggesting lands are either unstable or subject to erosion - minor concerns within area of historic gravel pit - no surface water flows on property 		X	<ul style="list-style-type: none"> - minimize constructed slopes and avoid historic gravel pit area unless slopes are reshaped
2.6 cause negative effects related to the remediation of contaminated land?	<ul style="list-style-type: none"> - No known remediation being performed in the area 		X	

Environmental Screening Checklist



Might the project...

Criterion	Summary of Information	Potential Environmental Effect?		Possible Mitigation
		YES	NO	
3. Air and Noise				
3.1 cause negative effects on air quality due to emissions?	- minor concerns of emissions activities on site	X		
3.2 cause negative effects from the emission of greenhouse gases (e.g., carbon dioxide, carbon monoxide, methane)?	- trucks and the waste produce emissions of GHGs - small site with little truck traffic - small quantities of waste will generate very minor methane	X		- regular tune ups of vehicles and equipment - monitoring of methane with sampling - Minimize organic waste deposition
3.3 cause negative effects from the emission of dust or odour?	- dust and odour occur on landfills naturally from the digging, waste, wind, heat, etc.	X		- dust control by water spraying - earth moving operation suspended on windy days - proper cover daily
3.4 cause negative effects from the emission of noise?	- truck traffic - equipment use - relatively isolated site	X		- noise barriers (natural or man made) - site design away from residences/road - service of equipment
3.5 cause light pollution from trucks or other operational activities at the site?	- truck traffic - equipment use - isolated site with tree coverage and natural slope to the land	X		- will not operate at night - barriers around perimeter - long road leading up to site - modification of slopes
4. Natural Environment				
4.1 cause negative effects on rare (vulnerable), threatened or endangered species of flora or fauna or their habitat?	- MNR and recent studies have both stated that there are no rare or endangered species of flora or fauna or their habitat		X	
4.2 cause negative effects on protected natural areas such as, ANSIs, ESAs or other significant natural areas?	- no ANSIs, ESAs or other significant areas		X	
4.3 cause negative effects on designated wetlands?	- no known wetlands on property or surrounding 500 m		X	
4.4 cause negative effects on wildlife habitat, populations, corridors or movement?	- Tree patches on site likely providing winter thermal cover and bedding to deer - No species of special concern or provincially rare species were identified in the study area	X		- Minimize removal of existing trees
4.5 cause negative effects on fish or their habitat, spawning, movement or environmental condition (e.g., water temperature, turbidity, etc.)?	- watercourse crossings have been mapped as intermittent by the MNR but the MNR has questioned whether the watercourses may possibly be permanent cold water habitat		X	- further work remains to be done to assess whether these locations are permanent cold water fish habitat
4.6 cause negative effects on locally important or valued ecosystems or vegetation?	- none present on property		X	
4.7 increase bird hazards within the area that could impact surrounding land uses (e.g., airports)?	- nearest airport found to be 52 km away; no other bird hazard sensitive land uses nearby		X	
5. Resources				
5.1 result in practices inconsistent with waste studies and/or waste diversion targets (e.g., result in final disposal of materials subject to diversion programs)?	- waste diversion already incorporated into waste management operations of Township		X	
5.2 result in generation of energy that cannot be captured and utilized?	- small site with little gas produced and therefore difficult to capture and use	X		
5.3 be located a distance from required infrastructure (such as availability to customers, markets and other factors)?	- already integrated into waste management system with other sites/facilities in the area		X	
5.4 cause negative effects on the use of Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural lands?	- none in the area		X	
5.5 cause negative effects on existing agricultural production?	- may result in minor loss of grazing lands; not used to grow crops	X		

Environmental Screening Checklist



Might the project...

Criterion	Summary of Information	Potential Environmental Effect?		Possible Mitigation
		YES	NO	
6. Socio-economic				
6.1 cause negative effects on neighborhood or community character?	<ul style="list-style-type: none"> - neighbouring residents and hospitality enterprise nearby do not want the waste disposal site to reopen - concerns are that Ruby Road area will have negative stigma of local "dump" - isolated, very small site 	X		- waste disposal site should be modern in operation and management
6.2 result in aesthetics impacts (e.g., visual and litter impacts)?	<ul style="list-style-type: none"> - possible visibility of waste operations from road - relatively isolated and small and therefore aesthetics more easily managed 	X		<ul style="list-style-type: none"> - fences - regular clean-up - berms
6.3 cause negative effects on local businesses, institutions or public facilities?	<ul style="list-style-type: none"> - no businesses, institutions or public facilities in 500 m 		X	
6.4 cause negative effects on recreation, cottaging or tourism?	<ul style="list-style-type: none"> - Isolated from events, recreational items and cottages - None within 500 m radius 		X	
6.5 cause negative effects related to increases in demands on community services and infrastructure?	<ul style="list-style-type: none"> - additional 2 to 3 trucks per week will increase use of local road 	X		- additional truck traffic to have minor impact to road wear
6.6 cause negative effects on the economic base of a municipality or community?	<ul style="list-style-type: none"> - economically feasible within the financial constraints of the municipality 		X	
6.7 cause negative effects on local employment and labour supply?	<ul style="list-style-type: none"> - no impact 		X	
6.8 cause negative effects related to traffic?	<ul style="list-style-type: none"> - Addition of only 2 to 3 additional trucks /week 		X	
6.9 be located within 8 km of an aerodrome/airport reference point?	<ul style="list-style-type: none"> - no, nearest is 52 km 		X	
6.10 interfere with flight paths due to the construction of facilities with height?	<ul style="list-style-type: none"> - not necessary for operations 		X	
6.11 cause negative effects on public health and safety?	<ul style="list-style-type: none"> - possible concerns with respect to air quality, drinking water, vector and vermin 	X		<ul style="list-style-type: none"> - covering of emplaced waste - diversion of HHW - monitoring of water quality
7. Heritage and Culture				
7.1 cause negative effects on heritage buildings, structures or sites, archaeological sites or areas of archaeological importance, or cultural heritage landscapes?	<ul style="list-style-type: none"> - none present 		X	
7.2 cause negative effects on scenic or aesthetically pleasing landscapes or views?	<ul style="list-style-type: none"> - possibly visible from Ruby Road 	X		- construction of berms if needed or strategic location
8. Aboriginal				
8.1 cause negative effects on land, resources, traditional activities or other interests of Aboriginal communities?	<ul style="list-style-type: none"> - surrounding lands not owned or used by Aboriginal communities 		X	
9. Other				
9.1 result in the creation of non-hazardous waste materials requiring disposal?	<ul style="list-style-type: none"> - negligible 		X	
9.2 result in the creation of hazardous waste materials requiring disposal?	<ul style="list-style-type: none"> - no hazardous waste to be disposed at site 		X	
9.3 cause any other negative environmental effects not covered by the criteria outlined above?	<ul style="list-style-type: none"> - none identified 		X	



Solid Waste Management Strategies

- Reduce the amount of packaging you buy, reuse what you can, and recycle the rest.
- Compost food and yard waste
 - Use a mulching lawnmower to reduce the size of the clippings to spread back onto grass to decompose back into soil
- Buy durable products and maintain/repair them for longer life
- Borrow or rent items rarely used
- Sell or donate products you no longer use
- Avoid excess packaging
 - Look for products without packaging
 - Avoid individually wrapped portions (cheese slices, juice, etc.)
- Favour products with a high recycled content
- Choose concentrated products in reusable containers, and largest size containers
- Buy in bulk
 - Take your own glass or other containers to the store to be filled directly with bulk goods.
- Buy foods in plastic bags rather than boxes
- Choose rechargeable batteries and long-life bulbs
- Avoid disposable napkins, paper plates, razors, pens, pencils, lighters, etc.
- Buy recycled paper bathroom tissue, napkins and kitchen towels.
- Take your own mug or thermos to the coffee shop
- Use your own reusable canvas or string bags when shopping
 - If you do opt for paper or plastic grocery bags, take them back to the store to be recycled

