

CHRIS PRICE
TECHNICAL SERVICES OFFICER
BIMOSE TRIBAL COUNCIL

GUIDELINES FOR SOLID WASTE

PLANNING ROLES & RESPONSIBILITIES REGULATIONS AND CODES





PLANNING

THERE ARE MANY OPTIONS AND VARIABLES FOR SOLID WASTE

- ENVIRONMENT
 - POPULATION





PLANNING

PUBLIC CONSULTATION

- TOWN HALL MEETINGS MAPS,
 OPEN DISCUSSION, PRESENTATIONS,
 ATTENDANCE DEPENDANT
 - DOOR TO DOOR PAPER
 - SOCIAL MEDIA UNFILTERED

PLANNING - QUESTIONAIRE

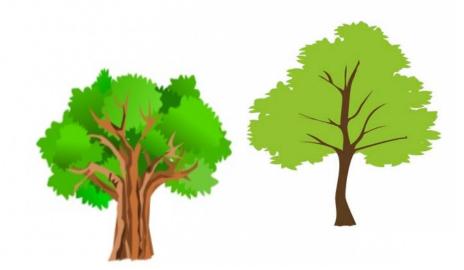
- HOW MANY PEOPLE LIVE IN YOUR HOUSEHOLD?
- HOW DID YOU HEAR ABOUT THIS EVENT?
- WOULD YOU LIKE TO SEE THE CURRENT METHOD OF MANAGING WASTE IN YOUR COMMUNITY CHANGE?
- WHAT TYPES OF MATERIALS DO YOU THINK ARE MOST IMPORTANT TO DIVERT FROM THE LANDFILL?

PLANNING - QUESTIONAIRE

- WOULD YOU BE WILLING TO SEPARATE OUT MATERIALS SO THAT THEY WOULD NOT BE DISPOSED OF IN THE LANDFILL?
- WHAT FACTORS DO YOU THINK SHOULD BE MOST IMPORTANT WHEN LOOKING FOR A LOCATION FOR A LANDFILL SITE?
- HOW CAN WE BEST PROVIDE ADDITIONAL INFORMATION TO KEEP YOU INFORMED ON THE ENVIRONMENTAL SCREENING PROCESS?

ROLES & RESPONSIBILITIES CHIEF & COUNCIL

Aboriginal Affairs & Northern Development Canada - AANDC





CHIEF & COUNCIL'S RESPONSIBILITIES



- Undertake an Environmental Assessment;
- Obtain a permit from AANDC;
- Constructing, operating and monitoring of site with agreed codes and regulations;
- Assist with inspections and audits
- Cleaning up and closing of existing sites
- Provide training
- Developing waste diversion programs



AANDC'S RESPONSIBILITIES



- To issue permits;
- Under capital management provide funding towards design, construction and operation of community waste management sites;
- Ensures that the 'Indian Reserve Waste Disposal Regulations' are enforced;



AANDC'S RESPONSIBILITIES



- Allocates funding for design, construction and operation;
- If issuing a Permit, as Responsible Authority under CEAA;
- If funding a site, must render a EA screening decision, prior to release of funding;



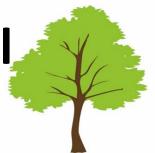
REGULATIONS AND CODES



Indian Reserve Waste Disposal Regulations **AANDC Land Use Permits** Canadian Environmental Assessment Act Health Canada Ministry of the Environment Department of Fisheries & Oceans Province of Ontario



Indian Reserve Waste Disposal Regulations



Pursuant to the Indian Act

http://laws-

lois.justice.gc.ca/eng/regulations/C.R.C., c. 9 60/





https://www.aadnc-aandc.gc.ca/DAM/DAM-INTER-HQ/STAGING/texte-text/50-019 1100100037477 eng.pdf





Territorial Lands Act 22(2)(b)

Application for a Permit, The approximate location of all:

- (i) existing lines, trails, rights-of-way and cleared areas proposed to be used in the land use operation,
- (ii) new lines, trails, rights-of-way and cleared areas proposed to be used in the land use operation,





Territorial Lands Act 22(2)(b)

Application for a Permit, The approximate location of all:

(iii) buildings, campsites, air landing strips, air navigation aids, fuel and supply storage sites, waste disposal sites, excavations and other works and places proposed to be constructed or used during the land use operation, and





Territorial Lands Act 22(2)(b)

Application for a Permit, The approximate location of all:

(iv) bridges, dams, ditches, railroads, highways and roads, transmission lines, pipelines, survey lines and monuments, air landing strips, streams and all other features, structures or works that, in the opinion of the applicant, may be affected by the land use operation.



REGULATIONS AND CODES



Canadian Environmental Assessment Act

http://ceaa.gc.ca/default.asp?lang=En&n=9E C7CAD2-1

http://www.nofnec.ca/PDF/Presentations/De kker-CEAA.pdf



Province of Ontario



Ontario Regulation 232/98 made under Part V of the Environmental Protection Act took effect on August 1, 1998 and contains detailed requirements for the design, operation, closure and post-closure care of municipal (i.e. non-hazardous) waste landfilling sites.



Province of Ontario



https://dr6j45jk9xcmk.cloudfront.net/documents/1110/66-landfill-standards-en.pdf

For sites larger than 40,000m³ = 200m x
 200m x 1m deep



Province of Ontario



Ontario Regulation 232/98 Landfilling Sites

http://www.e-

laws.gov.on.ca/html/regs/english/elaws_regs

980232 e.htm





- design specifications for groundwater protection including a site specific design
- option and two generic design options,
- mandatory air emissions control for sites larger than 3 million cubic metres,
- the assessment of groundwater and surface water conditions;





- design requirements for buffer areas, final cover design, surface water and
- landfill gas control, and the preparation of a site design report,
- operation and monitoring requirements for site preparation, groundwater and
- surface water monitoring, daily cover, record keeping and reporting,





- requirements for a leachate contingency plan,
- site closure and post-closure care provisions; and
- **financial assurance** requirements for private sector landfills.





https://www.youtube.com/watch?v=sps OUFmfl





Buffer Area

- Minimum of 100m at every point
- sufficient to ensure that potential effects of the landfilling operation do not have any unacceptable impact outside the site such as surface runoff, litter, vectors, vermin, leachate, subsurface migration of landfill gas and aesthetic effects





Hydrogeological Assessment – Ground Water

- potential for past, current, and proposed activities to affect groundwater quality and protected beneficial uses
- extent and degree of existing contamination





Hydrogeological Assessment – Ground Water

- transport and fate of groundwater contaminants
- risk that groundwater contamination poses to human health and/or the wider environment.





Hydrogeological Assessment – Ground Water

 A field investigation may include: drilling, water sampling, water level measurement, hydraulic testing





Surface Water Assessment

 plans, specifications and descriptions of the surface water features on the site, the surface water features that will receive a direct discharge from the site and the surface water features of the area in which the site is located





Ground Water Protection

 Measures taken into the design to mitigate the maximum concentration of contaminate into the ground water





Operations

- Records kept on weights, monthly, annual
- No burning unless it is wood during daylight hours and controlled
- Surface water is to be controlled maintain very little ponding and surface runoff
- Monitor ground water through annual test





Operations

- Monitor ground water through annual test
- Waste is covered each working day with either soil, sand, wood chips or compost



Environmental Protection Act



http://www.elaws.gov.on.ca/html/statutes/english/elaws_s tatutes_90e19_e.htm



Crown Lands Act

http://nslegislature.ca/legc/statutes/crownla n.htm

- Deemed an offence as a dumper.
- "Minister" = Minister of Natural Resources
- Crown has agreed in writing to the use of the land for that purpose.



What if your Landfill is on Crown Land without Approval?

 Need to apply for a work permit to do work on Crown Land