

REGIONAL DISTRICT OF BULKLEY-NECHAKO

WASTE MANAGEMENT COMMITTEE (Committee of the Whole)

AGENDA

Thursday, January 14, 2016

Page			Action
	1)	Accept Supplementary Agenda	
	2)	Minutes	
2-4		Waste Management Committee Meeting Minutes December 10, 2015	Receive
	3)	Business Arising Out of the Minutes	
	4)	Reports/Documents	
5-29		Landfill Criteria for Municipal Solid Waste – Second Edition, Webinar – November 12, 2015	Receive
	5)	Items for Discussion	
		Landfill Development Costs and Budget Implications	
		Solid Waste Management Plan Review	
		Cardboard Ban	
		Re-Use Sheds	
	6)	Correspondence	
	7)	New Business	
	8)	Adjournment	

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REGIONAL DISTRICT OF BULKLEY-NECHAKO

WASTE MANAGEMENT COMMITTEE MEETING (Committee Of The Whole)

Thursday, December 10, 2015

PRESENT:	Chair	Taylor Bachrach	
	Directors	Eileen Benedict Shane Brienen Mark Fisher Tom Greenaway Dwayne Lindstrom Thomas Liversidge Rob MacDougall Bill Miller Rob Newell Mark Parker Jerry Petersen Darcy Repen Gerry Thiessen	
	Director Absent	Luke Strimbold, Village of Burr	ns Lake
	Staff	Gail Chapman, Chief Administr Cheryl Anderson, Manager of A Hans Berndorff, Financial Adm Janine Dougall, Director of Env 2:37 p.m. Wendy Wainwright, Executive A	Administrative Services inistrator ironmental Services – arrived at
	Other	Jesse Hiemstra, Srnithers	
CALL TO ORD	ER	Chair Bachrach called the mee	ting to order at 2:35 p.m.
AGENDA		Moved by Director Repen Seconded by Director Brienen	
WMC.2015-3-1		"That the Waste Management (10, 2015 Waste Management (Committee receive the December Committee Agenda."
		(All/Directors/Majority)	CARRIED UNANIMOUSLY
MINUTES			
Waste Manage Committee Mea -June 11, 2015	eting Minutes	Moved by Director Petersen Seconded by Director Parker	
WMC.2015-3-2		"That the Minutes of the Waste 11, 2015 be received."	Management Committee for June
		(All/Directors/Majority)	CARRIED UNANIMOUSLY



REPORTS/DOCUMENTS

Salvaging Ban and Re-Use Shed Closure - Feedback Summary Document

Chair Bachrach thanked staff for the very complete and detailed report. Director Repen noted that there was substantial responses from the public in regard to the re-use shed closures, possible solutions and options.

Director Repen spoke to the possible implementation of CCTV cameras as a preventative measure. Separating the receiving goods from the picking up of goods may also address safety concerns. The use of volunteers at the re-use sheds and possible benefits to the volunteers was discussed.

Director Fisher spoke of the possibility of hiring a part-time employee to maintain the re-use sheds based on area needs. He spoke to possible funding options, staff training and authority given to staff to address non-compliance and ability to ban users. Director Parker noted the need to address each transfer station individually as some of the smaller transfer stations may only require CCTV cameras rather than having to hire additional staff. Discussion took place regarding the possibility of the re-use sheds being operated on a contract basis.

Director Miller noted concerns regarding the risk of liability. He also noted that people can potentially take items to local second hand businesses that in turn support local economies. Director Miller spoke of the need for producers and consumers to take responsibility for the products being sold and bought.

Each of the solutions and options in regard to re-opening the re-use sheds has a certain monetary value that needs to be considered. There are a number of factors that will impact a cost analysis depending on Regional Board direction. Janine Dougall, Director of Environmental Services, noted that some areas such as Houston and Fraser Lake do not have sufficient funding in their residual recycling initiative funds.

Metal and wood salvaging was discussed as being separate issues from the re-use sheds and may need to be addressed separately.

The possible inconvenience to the public of moving the re-use sheds off site from the transfer stations was discussed. Moving the re-use sheds may reduce liability issues. Some new to you organizations have indicated that they do not have the capacity to take on the re-use sheds.

Discussion took place in regard to the immediate need to address the safety issues and the potential of utilizing a safety consultant to review the safety management of the sites. Director Repen spoke of developing baseline safety guidelines for the entire RDBN for transfer stations and landfills including the use of re-use shed facilities. He also noted the need to develop individual guidelines to address usage at individual sites. Discussion took place in regard to the Regional Board developing bylaws to address the use of re-use sheds, transfer stations and landfills that clearly outline allowable behavior and consequences for non-compliance. The displaying of rules and regulations through signage was discussed. Chair Bachrach mentioned that each re-use shed at each of the RDBN transfer station facilities is different but he noted that Electoral Area "A" (Smithers Rural) residents have indicated their want to have the re-use sheds opened as soon as possible.

Director MacDougall commented that each Director for his or her area should develop a plan as to what they would like to have in their community and how the plan can be implemented in regard to re-opening the re-use sheds and that the information be brought forward for staff.

The importance of reviewing and updating the RDBN Solid Waste Management Plan was discussed.



REPORTS/DOCUMENTS (CONT'D)

Safety Plan for RDBN Waste Management Facilities	Moved by Director Repen Seconded by Director Miller	
<u>WMC.2015-3-3</u>	"That the Waste Management C Regional District of Bulkley-Nec staff to request quotes for a bas RDBN legal liability in regard to management facilities."	hako Board of Directors direct eline safety plan to address
	(All/Directors/Majority)	CARRIED UNANIMOUSLY
Plan to Re-Open RDBN Re-Use Sheds	Moved by Director Fisher Seconded by Director Miller	
<u>WMC.2015-3-4</u>	"That the Waste Management C Regional District of Bulkley-Nec with their respective counterpart plan to individually address area how the plan can be implemente use sheds; and further, that the prior to the January 14, 2016 me	hako Board of Directors meet is from each area and develop a a issues and concerns including ed for the re-opening of the re- information be provided to staff
	(All/Directors/Majority)	CARRIED UNANIMOUSLY
		he three concerns to be rd are the safety and liability at ties, a region by region plan for
NEW BUSINESS		
<u>Solid Waste Management</u> <u>Plan</u>	Director Miller brought forward t the RDBN Solid Waste Manage 2016 Waste Management Com	
ADJOURNMENT	Moved by Director Benedict Seconded by Director Parker	
WMC.2015-3-5	"That the meeting be adjourned	at 3:36 p.m."
	(All/Directors/Majority)	CARRIED UNANIMOUSLY

Taylor Bachrach, Chair

Wendy Wainwright, Executive Assistant

"Landfill Criteria for Municipal Solid Waste"

British Columbia

Second Edition

Webinar November 12, 2015 Victoria, BC



Presentation Outline

- Criteria Update Process
- Objectives
- Review Process
- Summary of Comments
- Document Status
- Application and Exceptions
- Financial Security
- Landfill Plans and Reports
- Siting, Design and Operation
- Ministry Resources
- Next Steps





Criteria Update Process

- First Edition was introduced in 1993
- Jurisdictional scan
- Review of the existing document
- > Two consulting companies were involved
- Second Edition was posted as an Interim Draft on the Ministry website for 6 months for comments
- > Presented to SWANA, APEG BC and LG Working Group
- Extensive feedback (32 submissions) received

Objectives

- Outline new standards and operating procedures for landfills consistent with current industry and ministry practices and ensure better environmental protection
- Address new regulatory requirements (Landfill Gas Management and Contaminated Sites Regulation)
- > Provide:
 - Guidance for ministry staff, landfill owners and QP's
 - Basis for consistent decision making

British Columbia

Clarity and consistency in regulatory approach province-wide

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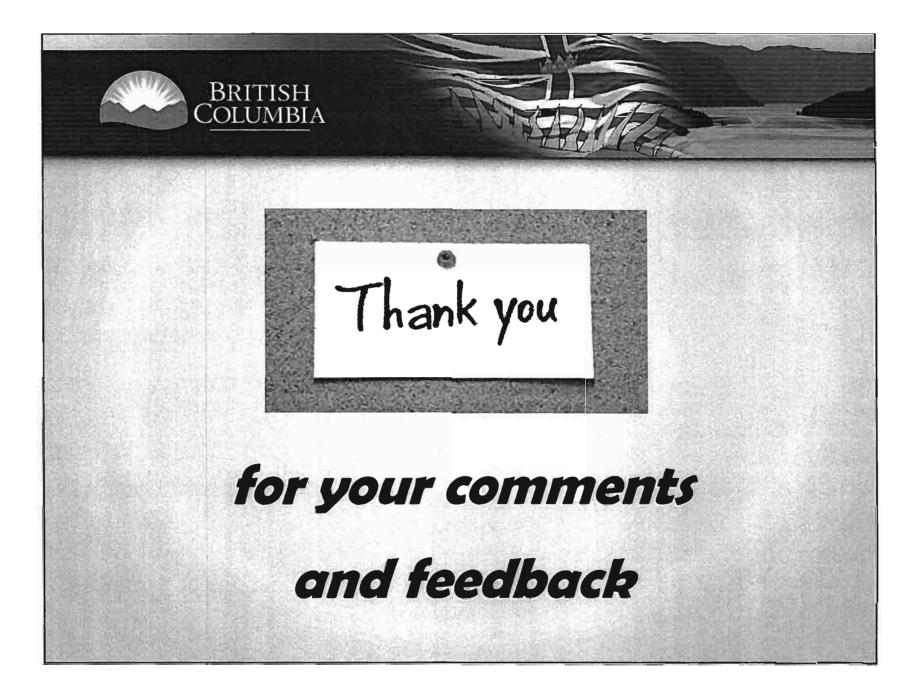
Objectives

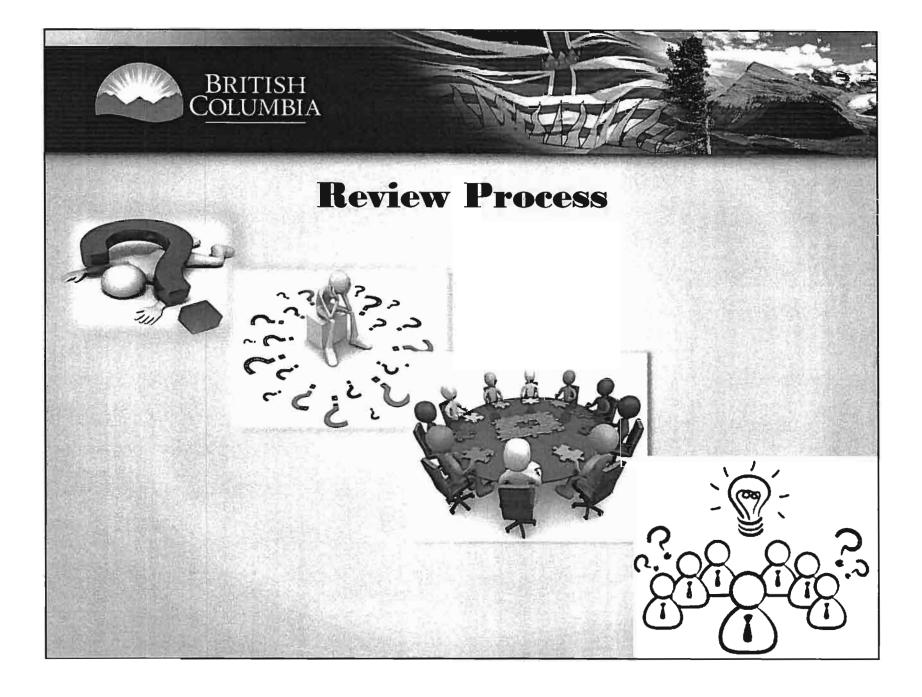
> <u>Applies to:</u>

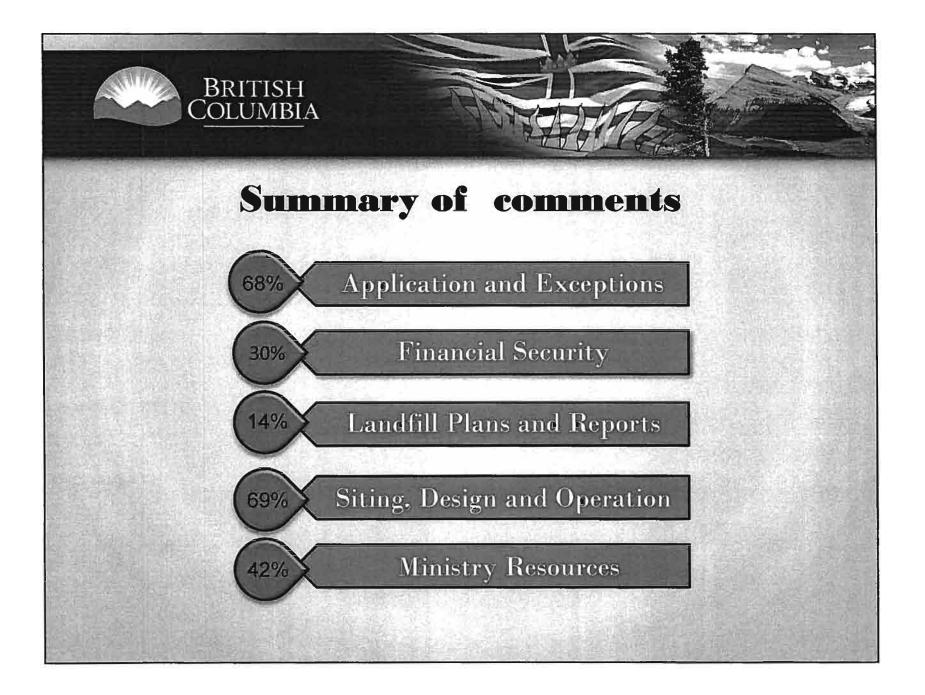
- New landfills
- Lateral and/or vertical expansions of existing landfills
- New landfill phases

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- Existing landfills
- Flexibility based on equivalency:
 - BMPs are straightforward path
 - The proponent may ask for an exception
 - Require significant justification and technical rationale completed by QP
 - Demonstrate equivalent or better level of environmental protection







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Document Status

• Guidance versus Regulation.

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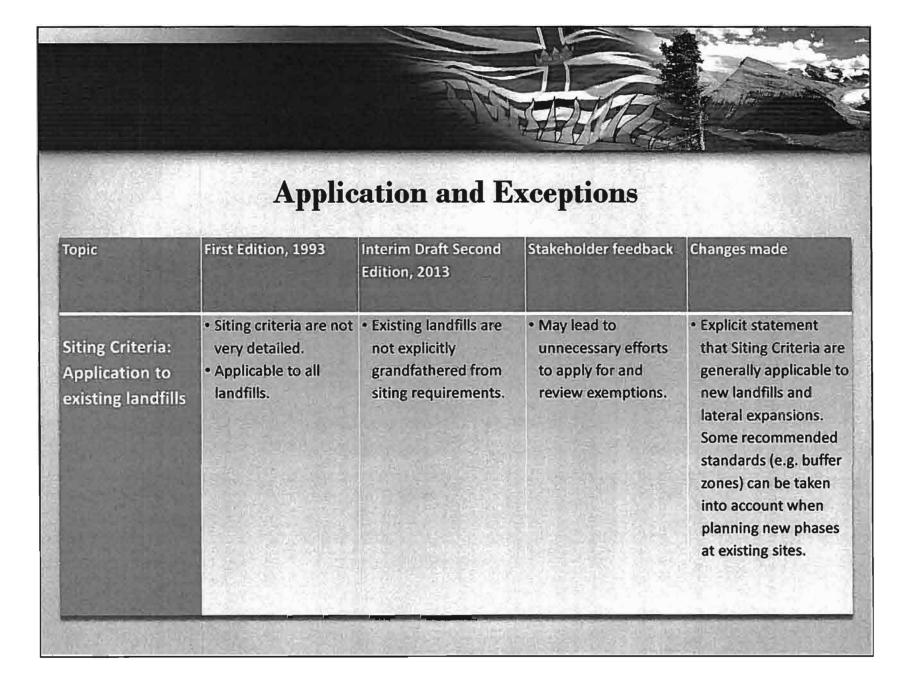
- 1993 Edition did not provide clear explanation.
- Interim Draft Second Edition, 2013 included brief explanation how it should be considered in setting legal standards.
- Revised Draft Second Edition, 2015 contains expanded description of the document intent and role as a guidance in setting legal standards in Foreword and Application sections.

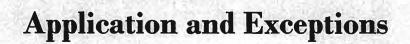


Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
GENERAL Approach to	• Site-specific exemptions by request.	 Blanket default application of the requirements and standards to all landfills. Site-specific exemptions can be made on request. 	 Provide more scenarios to be considered as straightforward exceptions. Application to existing sites. 	• Grandfathering of some criteria for existing sites.
Exceptions	• No reference to QP.	• QP has to certify justification for exception.	• Additional expenses.	 Generally no changes. MOE heavily relies on QP expertise in all areas including landfilling.
	 No details on processing exceptions by MOE. 	 General direction to submit application for exception to MOE. 	 Provide clear description of the steps to apply and obtain an exception. 	 Regional Operations Branch uses the Structured Application Process to review all site- specific applications.

Application and Exceptions

Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
Application of the LC standards to all landfills regardless of the size and operational stage. Small landfills.	 Some small landfills may be exempted from certain sections. Not applicable to Performance, Siting and Design standards. 	 Blanket application of the requirements to all landfills. Exceptions can be made on a site-specific basis. 	• Lack of funding and resources for small landfills to complete the reports and implement BMPs, especially if they are close to end of life and did not plan for that.	 If closed within 5 years, sites may be subject only to closure and post-closure requirements (at the discretion of the Director). Written confirmation submitted to MOE within 12 months.





Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
Design Standards: Application to existing landfills	 Not detailed. Applicable to all landfills. 	 Blanket application of the standards (e.g. engineered liner) to all landfills. Existing site owners have to submit a request for exception justified by QP if they want to proceed with a natural attenuation site. 	 Some standards are impossible to implement at existing sites (liners). Inevitably lead to unnecessary exception requests for existing landfills. Uncertainty with the timelines. 	• Sections specified within Design Criteria chapter that apply to new sites only.

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	Арр	olication a	and Exceptio	ns
Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
Design standards: Base Liner Requirements for new phases and expansions of existing landfills	 Two site types: ✓ Natural control landfills. ✓ Engineered landfills. 	 Engineered liner as a default requirement for all new landfills and expansions. 	 Lack of LGs resources to convert small natural attenuation sites in remote locations to engineered lined landfills. Those sites might not pose risk to the environment. It's not an effective environmental protection policy and use of tax payers money. 	practical disposal alternative (sub-regional engineered landfill) closer than 100 km. 3.Less than 500 mm of annual

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	Appli	cation and H	Exceptions	
Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
Upgrading Plan	 An action plan to upgrade nonconforming landfills to be included in SWMP. A corrective action plan to be submitted to MOE. 	• A requirement to submit a Landfill Criteria Upgrading Plan if needed.	 Request to clarify the requirement for an Upgrading Plan completion. Might be onerous to complete. 	 Not a new requirement. Created a separate section: Conformance of existing landfills. Status check for existing landfills was divided into two steps: LC Conformance Review. LC Upgrading Plan if needed.

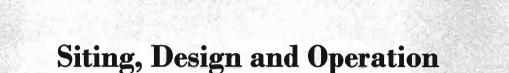
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Financial Security

Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made	e
Default period for calculating financial security	• No details on financial security calculation	• Default period of 1000 years in the absence of technical rationale	 Difficulty with calculating financial liabilities for such an extended period of time. Proper calculations 	based appro	ng more risk- ach to contaminating
			might be too costly for	a second s	Contaminating lifespan, years
			smaller landfills to secure exception.		200
			secure exception.	100,000- 1,000,000	100
				<100,000	50

Landfill Plans and Reports

Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
Content of the andfill plans and reports	 General requirements for sound knowledge of the environmental setting and a detailed site location investigation addressing broad categories of concern (water contamination, wildlife conflicts, etc.) No details on the content of the plans and reports. 	 Detailed structured content of the plans and reports to be submitted to MOE. New reports: Hydrogeology and Hydrology Characterization report. Construction report. 	 Outlined detailed content of the reports seemed to be onerous, especially for small landfills. Extra costs to complete all the reporting requirements. Uncertain timelines for MOE review 	• No changes



- ➤Agreement that it's a well-written document establishing BMPs and state-of the-art standards for landfills.
- Suggested improvements to the recommended standards were incorporated for achieving better landfill performance.

	Sitin	ng, Design and O	peration	
Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
Siting requirements	• 300m setbacks from facilities (residencies, water supply wells, public parks, etc.)	 Increased and refined setbacks: ✓ 500m from sensitive land uses including residencies and municipal parks. ✓ 300-500m from water supply wells depending on capacity. ✓ 100m from environmentally sensitive areas. 	 Possible complaints from adjacent property owners at the existing sites. Difficulty with siting a new landfill. Uncertainty with future expansions already planned closer. 	• Grandfathering for existing sites.
Buffer zone	 15m must be reserved for natural screening 	 30m recommended to be reserved for natural screening 	• Concern with existing operations	 Grandfathering for existing sites Recommendation to consider for future developments

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	Sitin	ng, Design and	A Operation	
Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
Distance to water table	• 1.2m	• 1.5m	 Increased distance is excessive The required distance is not sufficient 	• No changes
Fencing	• Required around the perimeter of the landfill	 Required around the entire perimeter of the landfill 	 Not practical for rural areas where not all space is used for landfilling Not practical for phased landfill development 	• Required around the perimeter of the operational footprint
Final cover application	• No timeline	• Final cover must be placed within 180 days	 Short construction season Economically more feasible to apply final cover on larger areas 	• Final cover shall be placed within 365 days

Siting, Design and Operation				
Торіс	First Edition, 1993	Interim Draft Second Edition, 2013	Stakeholder feedback	Changes made
Final contours	• No details.	• The final top grade shall be not less than 10% above the final landfill side slope.	 10% final grade is overly conservative and will limit beneficial end use options. 	 Recommended design criteria for the top plateau Not less than 10% for cover systems using soil barrier layer. Can be reduced up to 4% for cover systems using a geomembrane or composite barrier layer.
Requirement for QA/QC during construction	• No requirement	 • QA/QC inspections recommended. • Completion of construction report. 	 Request for more rigorous requirements for QA/QC. Concerns with additional costs. 	• No changes.

Ministry Resources

Stakeholder feedback	Proposed solution
 History of inconsistency in setting site-specific standards around the province. Additional applications that will be submitted to MOE to comply with the new document might affect timelines of issuing/amending site-specific authorisations. 	 Criteria as a guidance is a flexible document. Emphasis on adequate protection of human health and environment. Increased efficiency of Structured Application Process. Establishment of focused teams and work units to process sector specific applications. Training of the staff responsible for landfill management.

Next Steps

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Post as a draft on the Ministry website until January 31, 2016 and plan to finalize after completion of this period.



