

**REGIONAL DISTRICT OF BULKLEY-NECHAKO**

**WASTE MANAGEMENT COMMITTEE MEETING**  
**(Committee Of The Whole)**

**Thursday, October 12, 2017**

**PRESENT:** Chair Mark Fisher

Directors Chris Beach  
Eileen Benedict  
Shane Brien  
Dwayne Lindstrom  
Thomas Liversidge  
Rob MacDougall  
Bill Miller  
Rob Newell  
Mark Parker  
Jerry Petersen  
Darcy Repen  
Gerry Thiessen

Directors Taylor Bachrach, Town of Smithers  
Absent Tom Greenaway, Electoral Area "C" (Fort St. James Rural)

Alternate Director Bob Hughes, Electoral Area "C" (Fort St. James Rural)

Staff Melany de Weerd, Chief Administrative Officer  
Cheryl Anderson, Manager of Administrative Services  
Janette Derksen, Deputy Director of Environmental Services  
John Illes, Chief Financial Officer  
Rory McKenzie, Director of Environmental Services  
Wendy Wainwright, Executive Assistant

**CALL TO ORDER** Chair Fisher called the meeting to order at 11:30 a.m.

**SUPPLEMENTARY AGENDA** Moved by Director Parker  
Seconded by Director Benedict

WMC.2017-3-1 "That the Supplementary Agenda be dealt with at this meeting."

(All/Directors/Majority) **CARRIED UNANIMOUSLY**

**AGENDA** Moved by Director MacDougall  
Seconded by Director Repen

WMC.2017-3-2 "That the Waste Management Committee receive the October 12, 2017 Agenda."

(All/Directors/Majority) **CARRIED UNANIMOUSLY**

## **MINUTES**

Waste Management  
Committee Meeting Minutes  
-July 20, 2017

Moved by Director Beach  
Seconded by Director Benedict

WMC.2017-3-3

“That the Minutes of the Waste Management Committee for July 20, 2017 be received.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

## **POWERPOINT PRESENTATION – Rory McKenzie, Director of Environmental Services RE: Knockholt Landfill Phase 3 Expansion Project**

Rory McKenzie, Director of Environmental Services provided a PowerPoint Presentation. Started in 2016 and finished in 2017.

### **Knockholt Landfill Phase 3 Expansion Project**

#### **Purpose of Project**

- ▶ Develop a new Phase of the landfill footprint (3a) with an estimated lifespan of 7 years;
- ▶ Phases 3b and 3c to be developed in the future giving Phase 3 an overall lifespan of 33 years;
- ▶ Annual landfilled tonnage approximately 15,000 metric tonnes;
- ▶ Natural clay liner;
- ▶ Expansion area 7,500 m<sup>2</sup>.

#### **Phase 3 - 2016 construction works includes the following:**

- ▶ Go beyond the original plan to only pre-develop the bottom half of Phase 3 and pre-develop all of Phase 3. Excavate, haul and stockpile 9,000 m<sup>3</sup> (1200 tandem loads) of topsoil from Phase 3 (value \$480, 000);
- ▶ This will be enough topsoil for final cover of Phases 1, 2, and 3;
- ▶ Excavate, haul and stockpile 12,000 m<sup>3</sup> of un-useable clay (due to high moisture content) from Phase 3 and place in Phase 4 borrow pit area;
- ▶ Slope and ditch Phase 3 so it will drain and dry up for the construction year of 2017.

#### **2016 Budget and Expenditures:**

- Budget – \$400,000,
- Expenditures:
  - Engineering/Geotechnical - \$14,435,
  - Equipment - \$ 77,110,
  - Total spent on project in 2016 - \$91,545.

#### **Phase 3(a) construction works 2017 include the following:**

- ▶ Excavate, haul and place 20,000 m<sup>3</sup> of good quality clay for final cover on Phase 1 and Phase 2;
- ▶ Excavate, haul and place remaining 10,000 m<sup>3</sup> of clay in Phase 4 borrow pit;
- ▶ Make two 75 m long perforated HDPE (dr11) pipes using thermal fusion technology and tie into the existing manholes for leachate collection;
- ▶ Place non-woven geotextile and 1000 m<sup>3</sup> drain rock on HDPE pipe and build herringbone drainage lines to the pipe;
- ▶ Work done over and above original plan;
  - ▶ Build 250 metres of all-weather road 8 metres wide from scales to the new turning pad;
- ▶ Build a 1200 m<sup>2</sup> all-weather turning pad for trucks to turn around on and dump garbage into Phase 3(a) the pad will be recycled for the next pad in Phase 3(b)
- ▶ Haul 3000 m<sup>3</sup> of topsoil and place it on Phase 1 & 2 in a 30 cm spread
- ▶ The road, turning pad and placement of topsoil were all done within the budget.

**POWERPOINT PRESENTATION – Rory McKenzie, Director of Environmental Services**  
**RE: Knockholt Landfill Phase 3 Expansion Project (CONT'D)**

**2017 Project Budget and Expenditures:**

- ▶ Budget - \$350,000;
- ▶ Expenditures: HDPE pipe and thermal fusion – \$19,208;
- ▶ Geotextile and delivery - \$6,458;
- ▶ Total for out of RDBN expenditures - \$25,666;
- ▶ Expenditures within the RDBN:
  - Equipment - \$207,610;
  - Drain rock, blast rock and gravel - \$77,305;
  - Project management (RDBN) - \$4,620.83 (OT) for 6 weeks vs contract manager at \$8,000 per week;
  - misc. expenses - \$4,000;
- ▶ Total expenditures in the RDBN - \$293,535.83;
- ▶ Year to date costs for 2017 - \$319,201.83;
- ▶ Projected final costs - \$330,000.

Director Repen commented that the Knockholt Landfill Phase 3 Expansion Project information should be provided to the public for information.

Discussion took place regarding the amount of top soil that is on location at the Knockholt Landfill and that there is sufficient top soil to cover Phase 1, 2 and 3 during closure works along with future Phase development. Mr. McKenzie spoke of the need to keep the soil onsite for future use.

Director Repen spoke of the thermal fusion technology utilized to fuse the HDPE pipes together and questioned if there would be an option for the Regional District to partner with municipalities to purchase the technology for use on projects throughout the region. Mr. McKenzie noted that the Regional District does not have a high demand for the technology but could potentially research options to contribute at the Regional Board's direction.

Director Thiessen thanked Mr. McKenzie and expressed his appreciation for the report and presentation in regard the Knockholt Phase 3a project. Director Beach also noted that the management of the project and attention to budget details was greatly appreciated. Chair Fisher spoke to the importance of the Waste Management Committee receiving technical information in regard to the project. Mr. McKenzie noted that the presentation was to assist in identifying the economical manner in which the RDBN landfills and addresses the lifespan of a landfill. He spoke of the benefits of the location and space available for the RDBN landfills and also the natural materials at the sites that provides a significant cost savings to the Regional District. This information will also be beneficial in the RDBN Solid Waste Management Plan review process.

Chair Fisher thanked Mr. McKenzie for his presentation.

**DISCUSSION ITEM**

**Solid Waste Management Plan**

Mr. McKenzie provided an overview of his October 11, 2017 memo titled "Solid Waste Management Plan Project Schedule." In the teleconference meeting with Tetra Tech Canada, October 10, 2017, discussions took place regarding the formation of the Advisory Committee and the three options of structuring the committee: Technical Members Committee, Public Members Committee or a combination of both a Technical and Public Members Committee and the consensus was that one committee be comprised of both technical experts and public members would be the most beneficial. Mr. McKenzie mentioned that he has reviewed the Ministry of Environment's Guide to Solid Waste Management Planning that committee members will also need to review. He mentioned that all information in regard to the SWMP review process and Advisory Committee will be brought forward to the Regional Board for consideration.

**DISCUSSION ITEM (CONT'D)**

**Solid Waste Management Plan (Cont'd)**

The formation of the Advisory Committee may consist of:

- Three Directors of the Waste Management Committee;
- Representation from:
  - First Nations;
  - Northern Health;
  - Ministry of Environment:
    - Eric Pierce, Environmental Protection Officer, Authorizations, Smithers;
  - School District 91 Nechako Lakes;
  - School District 54 Bulkley Valley;
  - Recycling Centres – East/West;
  - Municipalities – CAO/CFO/Engineers/Operations Managers;
  - Members of the Public – Expression of Interest Media Release
    - Regional Board to review Expressions of Interest received and determine Advisory Committee public members;
    - A component of the Expression of Interest will include the ability to provide comments.
- Meeting details will be determined moving forward.

Director Repen brought forward challenges regarding staff capacity for municipal representatives on the Advisory Committee.

Janette Derksen, Deputy Director of Environmental Services noted that in discussions with Tetra Tech Canada to prepare for Stage One of the project and to prepare the site visits occurring October 24-26, 2017 it was decided that the meetings would take place at the Transfer Stations and possibly at Municipal Offices. She will provide an invitation and itinerary to the Regional Board of Directors. Mr. McKenzie commented that the consultants would be coming to the region to review RDBN infrastructure and recycling options for the SWMP.

**SUPPLEMENTARY AGENDA**

**REPORT**

Solid Waste Management  
Plan Project Schedule

Moved by Director Miller  
Seconded by Director Repen

WMC.2017-3-4

“That the Waste Management Committee receive the Director of Environmental Services’ October 11, 2017 memo titled “Solid Waste Management Plan Project Schedule.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

**ADJOURNMENT**

Moved by Director Benedict  
Seconded by Director Repen

WMC.2017-3-5

“That the meeting be adjourned a 12:24 p.m.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

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Mark Fisher, Chair

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Wendy Wainwright, Executive Assistant