



JOINT BIOSOLIDS ADVISORY COMMITTEE

WEDNESDAY, MAY 8, 2019

BIOSOLIDS FACILITY – 10 A.M.

AGENDA

1. ELECTION OF CHAIR AND VICE-CHAIR

2. ADOPTION OF AGENDA

3. ADOPTION OF MINUTES

Thursday, May 3 2018 (attached)

4. UNFINISHED BUSINESS

- a) Overview/status of Leachate and Odour Management Plans
- b) Update on Class B Compost Land Application Trial

5. NEW BUSINESS

- a) Impact of Bylaw changes on sales of compost
- b) 2019 Budget
- c) Compost Sales Promotion
- d) Design and Operating Plan update

6. INFORMATION ITEMS

- a) Odour Reports

7. NEXT MEETING

The next meeting date to be announced.

8. ADJOURNMENT



MINUTES OF THE JOINT BIOSOLIDS ADVISORY COMMITTEE

HELD THURSDAY, MAY 3, 2018

PRESENT: VOTING

Kelowna Councillor Gail Given
Kelowna Councillor Ryan Donn
Vernon Councillor Scott Anderson
Vernon Councillor Catherine Lord

ABSENT: Kelowna Councillor Brad Sieben

STAFF: Shirley Koenig, Director, Operation Services, Vernon
Kevin Van Vliet, Utility Services Manager, Kelowna
Jose Garcia, Biosolids Supervisor, Kelowna
Janice Nicol, Legislative Committee Clerk, Vernon

ORDER

The Chair called the meeting to order at 10:04 a.m.

**ADOPTION OF
AGENDA**

Moved by Councillor Anderson, seconded by Councillor Lord:

THAT the agenda for the Biosolids Advisory Committee meeting of Thursday, May 3, 2018 be adopted.

CARRIED.

**ADOPTION OF
MINUTES**

Moved by Councillor Given, seconded by Councillor Anderson:

THAT the minutes for the Biosolids Advisory Committee meeting of Thursday, November 23, 2017 be adopted.

CARRIED.

UNFINISHED BUSINESS/NEW BUSINESS:

As all agenda items are interdependent, they were combined for ease of discussion.

**UPDATE ON:
PROGRESS REPORT
ON LEACHATE AND
ODOUR MANAGEMENT
PLANS/IMPACT OF
BYLAW CHANGES/
WOODY BIOMASS**

The Joint Biosolids Advisory Committee meeting reviewed the progress report on the leachate and odour management plan.

Leachate

The Biosolids Supervisor provided an update. The following points were noted:

- The final issue of the Leachate Management Options Report was received at the end of January 2018
 - Recommended options to prevent leachate from entering the environment – line the drainage trench and pond for low strength leachate (LS) and treat high strength leachate (HS) using Rotating Biological Contactor (RBC), re-use effluent
 - This report was submitted to the Ministry of Environment & Climate Change (ENV) on March 31 with a letter of intent to line drainage trench and pond for low strength (LS) leachate, continue hauling high strength (HS) leachate, and will consider RBC in future
 - Preliminary estimates to line the pond have been high to date, expecting detailed proposal from consultant by end of next week
 - Consultants have been asked to split the process/plan into phases if timeline will extend beyond October 2018 (i.e. line trench first)
 - May require Permit deadline extension, currently it is October 31, 2018.
 - A total of \$500,000 has been budgeted by the Cities for Phase 1
 - Would like to postpone HS leachate treatment as other facility upgrades will be considered and may impact amount of HS leachate. Treatment of HS leachate is not a Permit requirement as long as hauling off-site continues.
 - Construction project will consider sediment quality and wildlife mitigation requirements
- Will propose phased approach (i.e. trench first).
- Design & Operating plan update and secondary odour control study is required and could affect the amount of leachate that is produced.

Odour Management Plan

The Consulting firm WSP wrote the update to the Odour Management Plan including potential odour sources, preventative measures, on-site odour monitoring and aeration plan, thresh-hold actions and off-

site odour monitoring. The final report was issued and submitted to ENV on November 30, 2017 as required by Permit.

- An Air Emission Review Study was also prepared by WSP and submitted to ENV in March 2018
- An Annual Report (2017) was also submitted to ENV in March 2018. The report indicated that 30,368 wet tonnes of biosolids were received in 2017 – 83.4% of what was allowed by permit with 65 odour complaints from four residents.
- Kelowna's Solid Waste Management Bylaw was amended in February 2018 in an attempt to grow bulk purchases – has had a positive effect to date:
- There is currently a request for Expression of Interest (EOI) for bulk purchase of Class A Compost on the City of Kelowna website that opened March 5, closing May 4, 2018
- Bulk sale opportunities have reduced inventory and storage costs with new wholesale customers. Plan has been successful in moving product outside the region
- Four new customers have committed to 25,500 cubic metres total with hauling to be completed by October 5, 2018
- Consideration will be given to re-opening EOI in the fall

Woody Biomass

The Committee passed a motion at the November 23 to identify the feasibility of applying compost and the potential for woody biomass production on City of Vernon owned and managed lands in the Commonage Area. The following update was provided:

- The Biomass Feasibility Study, being prepared by SYLVIS Environmental, is not ready, it is expected this Friday. Highlights include:
- The use 192 acres for willow plantation over three years with the design and cost summary to be finalized
- Will involve application of Ogogrow and spray irrigation and reduce reliance on external suppliers.
- Once results of study are available, a decision by respective Councils can be made
- Proposal will involve existing management units with the possibility of using more land subject to lease amendments
- Ogogrow application rates will be carefully managed.

Class B Compost Land Application Trial

- SYLVIS has proposed a pilot study to assess suitability of application of primary tear down (first aeration piles/Class B compost), both screened and unscreened, to grass and range lands in 2018/19:
- Phase 1 – design, site procurement, regulatory discussion and land application. Approximate cost - \$32,850
- Phase 2 – operations management of the primary teardown, ad reporting of trial.
- Scale of project dependent on finding of Phase 1 and guidance from Cities of Kelowna and Vernon.
- Innovative idea could be beneficial to more than just two jurisdictions and could reduce inventory before proceeding to secondary treatment
- Would also allow digester discussions to be deferred
- If there are substantial questions regarding Biomass Feasibility Study, Committee can reconvene.
- Consideration to budgeting timelines for both cities as they are different (Vernon's budgeting discussions begin in August)
- Next Committee meeting in September to discuss budget

Moved by Councillor Anderson seconded by Councillor Given:

THAT the Joint Biosolids Advisory Committee support, in principal, the application of compost and the production of woody biomass on City of Vernon owned and managed lands in the Commonage Area;

AND FURTHER, pending additional information and approval from the Committee, that this support be forwarded to the respective Councils for their consideration.

CARRIED.

INFORMATION ITEMS:

Jose Garcia, Biosolids Supervisor for the City of Kelowna reviewed odour reports including odour complaints from residents. The following points were noted:

- There have been five complaints to date in 2018 from three residents.

ACTION ITEMS:

1. Memo to be sent to Director, Operations, City of Vernon from Utility Services Manager, Kelowna with an update on update on budget, approval and requests.
2. Biosolids Supervisor or designate to provide written report with charts for Committee review.

NEXT MEETING

The next meeting is tentatively scheduled for September 2018.

ADJOURNMENT

The meeting of the Biosolids Advisory Committee adjourned at 11:14 a.m.

CERTIFIED CORRECT:

_____ Chair