

Southgate OMRC

Public Advisory Committee

Minutes from PAC Meeting #23

LYSTEK SOUTHGATE ORGANIC MATERIALS RECOVERY CENTRE

Tuesday, November 24, 2015

TIME: 7 pm

LOCATION: Southgate OMRC Facility – Eco Park

ATTENDEES:

Steve Redmond (Chair), Karen Cheeseman, David Hiscock

Simon Meulendyk – Lystek,

John Woodbury - Township of Southgate Councillor

Absent: Mike Dougherty, Glen Irwin

AGENDA TOPICS:

| Item | Description | Action By |
|------|--|--|
| 1. | Welcome | Steve |
| 2. | Review of previous meeting minutes Steve provided a review of the minutes from the August PAC meeting. | Accepted by consent via email within two weeks of last meeting |
| 3. | Approval of Agenda | Moved by David Hiscock Seconded by Karen Cheeseman |
| 4. | Public and Media Attendance – Re: Question Period and Code of Conduct | Steve |
| 5. | Operations Update The OMRC has been operating three shifts per day, receiving incoming material from eight (8) municipalities (see summary at the end of the minutes). Lystek has rehired Douwe Sikkema as an operator and Shilah Lefevre (2014 co-op student) has been hired as an Assistant Lab Technician. There are currently eleven full time employees. Land Application of the outgoing material continued throughout the fall and the storage lagoons are empty. Despite increasing volumes of LysteGro produced in 2015 – versus 2014 – the demand has outweighed | Simon Meulendyk |

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| | <p>supply. There is currently a waiting list for material and customers are booking for 2016.</p> <p>OSCIA Field Studies: The field studies on the 2015 corn crop in four counties (Grey, Simcoe, Wellington and Dufferin) have been harvested and the results will be reported by Simon at the Grey County Soil & Crop meeting and by Andrew Barrie (OMAFRA Specialist) at the Ontario Soil & Crop Annual meeting in February. The rates of product used by OMAFRA in the study were determined through an analysis of the N-P-K (Nitrogen-Phosphorus-Potassium) content of LysteGro and the nutrient requirements for corn. This analysis showed that 4,500 gallons per acre (GPA) was the optimum rate. Rates tested were 3,000 and 4,500 GPA.</p> <p>VanNiekerk Study: Andy VanNiekerk (CCA ON at Stayner) has conducted a study in 2015 where the yield of corn showed no significant difference when rates of 3,000 and 4,500 GPA were compared to commercial fertilizer.</p> | |
| 6. | <p>Community Concerns</p> <p>There were two odour complaints in the period from September 1st to November 24th.</p> <ul style="list-style-type: none"> The first complaint was received by the MOECC on Friday Sept. 4th. A Senior Environmental Officer was sent to Dundalk from Owen Sound to make observations. The Officer arrived in Dundalk at approximately 2:00 pm on Sept.4th. During this visit the Officer noted “only very slight odours on Gold Street”, however the source of the odour was NOT identified. <p>An email response to the complainant by Rick Chappell, MOECC District Manager from Owen Sound stated:</p> <p><i>“Based upon observations made on September 4, 2015 it was determined that both facilities are operating within ministry legislation or regulations and the terms and conditions as set out in their Environmental Compliance Approvals.”</i></p> <p><i>“The ministry will continue to monitor the situation at the Eco Park facility to ensure both companies are</i></p> | Steve Redmond |

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| | <p><i>operating within the terms and conditions of their Environmental Compliance Approval and/or application of Environmental Legislation”.</i></p> <p><i>“If the ministry determines either facility to be in non-compliance with our legislation or regulations ministry staff, through application of appropriate compliance and enforcement tools will work to bring these facilities into compliance”.</i></p> <ul style="list-style-type: none"> • The MOECC received one additional complaint on October 27, 2015. Lystek was notified and Mike Dougherty was able to do a site assessment to check the activities at the OMRC facility. <p>Chair’s Note:</p> <p><i>There has been no further documented communication regarding the October 27th complaint.</i></p> <p><i>Due to the requirement to monitor the operation of the facility and the weather conditions that could potentially cause an odour issue, Lystek is encouraging all residents to notify the company in a timely manner such that an appropriate response can be made.</i></p> <p><i>Lystek’s response to odour complaints may include monitoring weather data and wind direction that could provide answers to odour concerns.</i></p> | |
| <p>7.</p> | <p>Monitoring Reports</p> <p>The PAC reviewed the 2015 third quarter monitoring report. The consistency of the material and constituent levels are similar to previous reports and are well below regulated limits in all monitored metals and pathogens.</p> <p>The 3rd quarter report is attached.</p> | <p>Simon</p> |

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| 8. | <p>Action Items:</p> <p>1. Consider bi-annual meetings (May-June and late November in 2016).</p> <p>The PAC members discussed having two meetings (late May and late November) in 2016 and Lystek will notify the MOECC of this PAC meeting frequency plan.</p> | Steve |
| | <p>Next meeting is planned for Tuesday, May 24th or May 31st, 2016 at 7 pm in the Southgate Organic Materials Recovery Centre boardroom.</p> | |
| | <p>Adjourn Meeting</p> | Moved by John Woodbury |

| Incoming Material Summary | | |
|----------------------------------|-------------------------|--|
| Type | Volume (trucks) per day | Municipality |
| Cake (solid) | 2-3 | Toronto, Peterborough, Halton, Guelph, |
| Liquid | 7-8 | Orangeville, Durham, Owen Sound and Tay Township |

Attachments:

- Monitoring Reports for 3rd quarter 2015

The Southgate OMRC PAC is a condition of the MOE's Environmental Compliance Approval to create an open flow of information to local residents about the biosolids processing centre in Dundalk.

Members of the PAC meet four times per year, or more often if deemed necessary. Currently, there are four volunteer community members and a chairperson on the committee. Members of the PAC include:

- *Glen Irwin, a local business person and former Southgate Twp. Councillor*
- *Karen Cheeseman, a local graphic artist*
- *David Hiscock, a resident of Dundalk*
- *John Woodbury, a Township of Southgate Councillor .*
- *The committee is chaired by Stephen Redmond. He is a certified crop advisor, a former Environmental Specialist with OMAFRA and former resident of Dundalk.*

Processed Product Analysis Form
Quarter 3 - 2015 Jul Aug Sept

Lystek Southgate Organic Materials Recovery Centre (OMRC)
191 Eco Park Way, Dundalk, Ontario

| Constituent | JULY 6 - 10 | JULY 13 - 17 | JULY 20 - 24 | JUL 27 - 31 | AUGUST 3 - 7 | August-15 | AUGUST 17 - 21 | AUGUST 24 - 28 | AUGUST 31 - SEPT 4 | SEPT 7 - 11 | SEPT 14 - 18 | SEPT 21 - 25 | SEPT 28 - OCT 2 | Quarterly Average | Maximum Allowable Metal Concentration ^a | Units |
|--|-------------|--------------|--------------|-------------|--------------|-----------|----------------|----------------|--------------------|-------------|--------------|--------------|-----------------|-------------------|--|---------|
| Metals | | | | | | | | | | | | | | | | |
| Arsenic | 5.41 | 2.35 | 4.33 | 2.88 | 3.69 | | 2.71 | 2.95 | 2.35 | 3.25 | 3.52 | 3.21 | 3.56 | 3.35 | 170 | mg/kg |
| Cadmium | 1.85 | 2.26 | 2.14 | 2.48 | 2.10 | | 3.12 | 2.23 | 2.16 | 2.24 | 2.43 | 2.65 | 2.27 | 2.33 | 34 | mg/kg |
| Cobalt | 3.28 | 4.15 | 4.17 | 5.50 | 3.46 | | 4.95 | 3.65 | 3.61 | 3.21 | 3.73 | 4.27 | 4.62 | 4.05 | 340 | mg/kg |
| Chromium | 65.80 | 91.35 | 65.60 | 54.65 | 88.05 | | 64.35 | 53.70 | 120.75 | 61.90 | 65.80 | 61.05 | 64.30 | 71.44 | 2,800 | mg/kg |
| Copper | 710.10 | 728.70 | 676.80 | 624.60 | 723.00 | | 662.40 | 510.50 | 590.00 | 705.00 | 759.30 | 691.80 | 732.00 | 676.18 | 1,700 | mg/kg |
| Mercury | 0.37 | 0.39 | 0.36 | 0.44 | 0.37 | | 0.42 | 0.94 | 0.59 | 1.09 | 0.49 | 0.41 | 0.41 | 0.52 | 11 | mg/kg |
| Molybdenum | 9.30 | 9.30 | 9.60 | 10.30 | 8.90 | | 10.20 | 7.50 | 7.80 | 8.50 | 10.00 | 9.80 | 9.90 | 9.26 | 94 | mg/kg |
| Nickel | 22.91 | 34.96 | 24.28 | 23.64 | 31.02 | | 27.69 | 20.42 | 42.80 | 22.34 | 21.69 | 21.88 | 20.96 | 26.22 | 420 | mg/kg |
| Lead | 40.79 | 40.82 | 34.25 | 29.68 | 44.92 | | 30.44 | 37.77 | 38.74 | 32.85 | 36.52 | 35.56 | 41.00 | 36.95 | 1,100 | mg/kg |
| Selenium | 3.36 | 2.66 | 5.53 | 3.81 | 5.00 | | 3.88 | 4.00 | 4.08 | 4.47 | 4.88 | 3.64 | 3.32 | 4.05 | 34 | mg/kg |
| Zinc | 804.60 | 865.50 | 813.30 | 882.60 | 807.90 | | 894.60 | 658.50 | 604.00 | 806.70 | 897.90 | 869.70 | 904.80 | 817.51 | 4,200 | mg/kg |
| Nutrients and Physical Properties | | | | | | | | | | | | | | | | |
| Ammonium - N | 15,476.64 | 14,422.76 | 13,882.21 | 11,392.60 | 15,446.32 | | 13,959.65 | 8,891.32 | 13,137.22 | 14,312.59 | 14,279.22 | 20,901.25 | 15,370.18 | 14,289 | n/a | mg/kg |
| Total Moisture | 83.86 | 84.40 | 85.16 | 86.07 | 84.93 | | 85.35 | 82.48 | 85.17 | 86.34 | 86.86 | 87.20 | 86.45 | 85.36 | n/a | % |
| Total Organic Carbon | 316,100 | 316,900 | 321,200 | 315,700 | 327,300 | | 314,100 | 249,500 | 296,400 | 305,800 | 329,400 | 318,600 | 332,900 | 311,992 | n/a | mg/kg |
| Total Kjeldahl Nitrogen | 32,800 | 34,500 | 45,800 | 33,700 | 33,900 | | 34,300 | 26,600 | 35,300 | 33,200 | 36,400 | 30,300 | 37,000 | 34,483 | n/a | mg/kg |
| Nitrate and Nitrite-N | 4.04 | 4.10 | 15.98 | 17.70 | 15.40 | | 31.00 | 15.44 | 6.26 | 121.20 | 18.12 | 12.42 | 29.40 | 24.26 | n/a | mg/kg |
| Total Potassium | 16,800 | 17,500 | 16,700 | 16,900 | 14,800 | | 15,600 | 12,500 | 13,500 | 16,200 | 16,500 | 22,000 | 15,900 | 16,242 | n/a | mg/kg |
| Total Phosphorus | 31,400 | 32,700 | 30,500 | 28,800 | 30,300 | | 29,200 | 32,600 | 28,700 | 30,700 | 28,700 | 29,900 | 31,600 | 30,425 | n/a | mg/kg |
| Pathogens | | | | | | | | | | | | | | | | |
| E.coli | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | n/a | n/a | MPN/g |
| Fecal Coliforms | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | n/a | 1,000 | MPN/g |
| Salmonella | NEG | NEG | NEG | NEG | NEG | NEG | NEG | NEG | NEG | NEG | NEG | NEG | NEG | n/a | <1 | CFU/25g |

^a As per Section 14.2 of Environmental Compliance Approval No. 8850-8V6S7Z

^b Due to inferences in the sample, accurate results were unattainable. Dilutions were below detection limits.

NOTE: Analysis completed by A&L Canada Laboratories Inc.

NOTE: Each sample represents a composite of a minimum of 1 grab sample collected directly from the discharge point of the process reactor on a daily basis.

n/a - not available

NEG - negative