

Southgate OMRC

Public Advisory Committee

Minutes from PAC Meeting #30

LYSTEK SOUTHGATE ORGANIC MATERIALS RECOVERY CENTRE

Thursday, June 6, 2019

TIME: 7 pm

LOCATION: Southgate OMRC Facility – Eco Park

ATTENDEES:

Steve Redmond (Chair), Karen Cheeseman, David Hiscock, Connie Hiscock
Simon Meulendyk, Adrienne Van Dyk – Lystek,
John Woodbury – Mayor,

Guest: Christina Rittwage – Resident of Dundalk

Regrets: Michael Sherson, Township of Southgate Councillor

AGENDA TOPICS:

Item	Description	Action By
1.	Welcome	Steve
2.	Review of previous meeting minutes Steve provided a review of the minutes from the November 29, 2018 PAC meeting.	Accepted by consent via email within two weeks of last meeting
3.	Approval of Agenda	Moved by David Hiscock Seconded by K. Cheeseman
4.	Public and Media Attendance – Re: Question Period and Code of Conduct	Steve
5.	Operations Update – Simon Meulendyk The OMRC continues to operate with 2-3 shifts per day. This spring was busier than typical for incoming materials. Wet weather has prevented some Municipalities from fully implementing land application programs and therefore they are required to implement their Contingency Plans which includes transferring their biosolids to the OMRC for further processing into LysteGro fertilizer. May was a record month for production of LysteGro fertilizer. A summary of incoming material for the previous two quarters can be found at the end of the minutes. Organizational Change: Justin Storrey was a new hire in December 2018. Lystek currently has 10 full time employees. New Incoming Contracts:	

	<ol style="list-style-type: none"> 1. A new contract was signed to receive dewatered material from Halton, Kitchener & Hamilton 2. A winter contingency liquid contract was signed with the town of Teeswater. 3. A liquid contract was signed with an alcohol recycling business. This alcohol is recovered from several sources and cannot be resold. It has limited nutrient value but recovery through the OMRC is a sustainable practice. <p>Land Application: Despite the wet weather in spring 2019, the land applications of LysteGro to the end of May are approximately 13,000 cubic metres.</p> <p>2019 Hay Trial: An internal study to evaluate LysteGro applications on hay will be replicated in 2019. Applications of 2,000 and 3,000 gallons per acre will be compared to equivalent amounts of commercial fertilizer.</p> <p>Environmental Compliance Approval (ECA): The two amendments to the existing Waste ECA have been approved by the MECP.</p> <ol style="list-style-type: none"> 1. Sampling of processed material for regulated metals will now be conducted monthly (reduced from weekly sampling). Pathogen testing of the material will remain weekly. 2. Liquid compost leachate as an approved incoming waste feedstock. <p>Lystek submitted an amendment to the Air ECA in June 2019. This amendment encompasses the additional air treatment stage for the reservoir storage and was installed in the summer of 2018. This submittal date was extended from last fall to evaluate the air treatment equipment over the course of winter.</p>
6.	<p>Community Concerns</p> <p>Odour Observations: Members shared that odour complaints received by the MECP, township or Lystek directly have reduced dramatically since upgrades were made to the air treatment system in 2018.</p> <p>Awareness of Southgate OMRC to New Residents: The PAC had a shorth discussion regarding whether developers should make potential new residents aware of the presence of the OMRC. Although this idea has merit, it was decided that it is beyond the scope of the PAC and that new residents need to be aware of ALL commercial activity in the municipality when deciding to reside in the area.</p>
7.	<p>Monitoring Reports - Simon</p> <p>The PAC reviewed the monitoring reports for the 4th quarter 2018 and the 1st quarter 2019. (<i>attached to PAC minutes</i>). The reports appear differently as the quarterly reports now represent the new sampling frequencies under the amended ECA.</p> <p>Note on Monitoring Reports:</p> <ul style="list-style-type: none"> - Fecal Coliform is reported as MPN/g this acronym is Most Probable Number per gram of processed material. - Salmonella is reported as CFU/25g. This represents Colony Forming Units per 25 grams of processed material.

8.	<p>New Business:</p> <ol style="list-style-type: none">1. Karen Cheeseman has notified the PAC of her resignation. The Chair has acknowledged Karen's resignation and publicly thanks Karen for her many years of service to the community as she has been a PAC member since 2012.2. Connie Hiscock and Christina Rittwage have signed the Code-of-Conduct and were welcomed as new members of the PAC. Connie & Christina live in different areas of Dundalk and this allows wider representation for Dundalk.3. The PAC will continue to solicit new members through local papers and selected social media outlets in 2019 as the Terms of Reference allow 4-6 residents of Southgate to be members.4. 2019 Plant and Field Tour: Due to the success of the 2018 field tour and the fact that there are several new Council members in the Township, it was decided to have a tour on Saturday July 21, 2019. Further details will be distributed to Joanne Hyde at the Township of Southgate and directly to PAC members. A proposal to open the tour to other residents of Southgate will be delayed until 2020.5. Review of the Terms-of-Reference Document. Three small changes were made to the Terms.<ol style="list-style-type: none">i. All references to meeting frequency were changed to two times per year – from four times per year.ii. The description of the Composition (Item 2) was changed to state "Composition of the PAC could include":iii. The inclusion of "one member at large from the scientific community (Item 2 d.) is now an optional member of the PAC.	
9.	<p>Action Items:</p> <ol style="list-style-type: none">1. The Chair will plan a meeting with the MECP manager in Owen Sound and the Southgate Mayor to maintain an open dialogue between the MECP, the PAC and the Township of Southgate.2. Insertion of Ads in the Dundalk Herald, Mt. Forest Confederate and other media outlets to ensure all Southgate residents are informed of the opportunity to sit as PAC members.	<p>Steve to contact MECP Manager in Owen Sound to obtain information.</p> <p>Simon to coordinate newspaper ads and social media outlets.</p>
	<p>Next meeting is planned for Thursday, November 28th, 2019 at 7 pm in the Southgate Organic Materials Recovery Centre boardroom.</p>	
	<p>Adjourn Meeting</p>	<p>Moved by David Hiscock</p>

Incoming Material Summary		
Type	Volume (trucks) per day	Municipality
Cake (solid)	5-6	Toronto (Ashbridges Bay & Highland Creek WWTPs), Guelph, Muskoka (Huntsville and Gravenhurst), Hamilton, Halton, & Kitchener/Waterloo
Liquid	2-3	Orangeville, Durham, Arthur, Mono, , Teeswater, LCBO

Attachments:

- *Monitoring Reports for 4th quarter 2018 and the 1st quarter 2019.*

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

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

- *David & Connie Hiscock, residents of Dundalk*
- *Christina Rittwage, resident of Dundalk*
- *Michael Sherson, 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 Southgate.*

Table 17

Processed Product Analysis Form
Quarter 4 - 2018

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



Constituent	Oct 1 - 5	Oct 8 - 12	Oct 15 - 19	Oct 22 - 26	Oct 29 - Nov 2	Nov 5 - 9	Nov 12 - 16	Nov 19 - 23	Nov 26 - 30	Dec 3 - 7	Dec 10 - 14	Dec 17 - 21	Dec 24 - 28	Quarterly Average	Maximum Allowable Concentration ^a	Units ^b
Metals																
Arsenic	4.00	4.00	4.00	4.00	3.00	2.63	1.38	4.00	2.98	5.25	4.57	4.00	4.99	3.75	170	mg/kg
Cadmium	2.44	1.88	1.79	2.18	1.76	3.62	4.18	2.60	2.04	2.83	1.13	2.95	2.33	2.44	34	mg/kg
Cobalt	4.58	3.82	3.84	4.50	3.55	3.65	2.60	4.83	3.32	5.16	4.83	4.97	3.75	4.11	340	mg/kg
Chromium	62.50	49.68	47.50	53.60	50.65	80.65	52.60	62.25	50.85	69.00	66.6	63.90	62.65	59.42	2,800	mg/kg
Copper	696.00	441.55	489.80	567.50	537.00	686.50	488.50	578.50	643.50	531.00	466.35	635.00	499.95	558.55	1,700	mg/kg
Mercury	0.40	0.70	0.40	0.30	0.40	0.60	0.70	0.60	0.20	0.30	0.30	0.30	0.40	0.43	11	mg/kg
Molybdenum	11.90	8.80	9.40	11.00	9.50	10.40	5.90	10.00	9.80	10.89	10.70	9.60	8.10	9.69	94	mg/kg
Nickel	25.32	19.97	19.65	23.24	20.27	33.32	28.20	28.20	23.22	22.84	24.23	26.50	19.67	24.20	420	mg/kg
Lead	27.00	21.00	17.00	20.00	17.00	42.47	33.95	35.00	21.11	19.95	27.55	28.00	BDL	25.84	1,100	mg/kg
Selenium	4.86	4.05	4.19	4.26	3.83	5.46	5.24	5.32	3.79	5.67	6.04	5.61	4.28	4.82	34	mg/kg
Zinc	701.50	546.00	527.00	646.00	492.00	577.00	329.55	585.50	565.00	650.50	655.00	742.50	492.10	577.67	4,200	mg/kg
Nutrients and Physical Properties																
Total Moisture	86.85	86.76	87.58	87.27	86.24	83.02	81.21	85.03	87.39	86.34	87.09	87.30	86.63	86.05	n/a	%
Total Organic Carbon	348,800					274,400					329,000			317,400.00	n/a	mg/kg
Total Kjeldahl Nitrogen	52,600					35,000					60,900			49,500.00	n/a	mg/kg
Ammonium - N	52,600					35,000					60,900			49,500.00	n/a	mg/kg
Nitrate and Nitrite-N	6.12					4.82					4.16			5.03	n/a	mg/kg
Total Potassium	14,000					14,700					14,800			14,500.00	n/a	mg/kg
Total Phosphorus	28,100					65,800					35,200			43,033	n/a	mg/kg
Volatile Solids						8.39					7.64			8.02	n/a	%
Pathogens																
Fecal Coliform	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	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. 8850-8V6S72

^b Results presented on a dry weight basis

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

Processed Product Analysis Form
Quarter 1 - 2019

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



Constituent	JAN 7 - 11	JAN 14 - 18	JAN 21 - 25	JAN 28 - FEB 1	FEB 4 - 8	FEB 11 - 15	FEB 18 - 22	FEB 25 - MAR 1	MAR 4 - 8	MAR 11	MAR 18	MAR 25	Quarterly Mean	Maximum Allowable Concentration ^a	Units ^b
Metals															
Arsenic	5.08	4.00	4.21	7.38	5.00	BDL	BDL	BDL	BDL				5.13	170	mg/kg
Cadmium	2.81	2.31	2.36	1.79	2.25	BDL	2.07	2.22	BDL				2.26	34	mg/kg
Cobalt	6.27	4.60	4.21	5.32	4.15	3.87	4.76	4.02	5.67				4.76	340	mg/kg
Chromium	62.70	60.90	57.35	58.45	52.85	59.35	73.65	70.65	82.70				64.29	2,800	mg/kg
Copper	521.00	455.95	547.00	426.95	509.50	468.95	481.90	439.00	482.45				481.41	1,700	mg/kg
Mercury	0.30	0.20	0.70	0.40	0.40	0.50	0.30	0.40	0.30				0.39	11	mg/kg
Molybdenum	9.80	9.30	9.90	9.40	10.00	9.00	10.90	11.00	12.50				10.20	94	mg/kg
Nickel	23.75	23.58	21.84	27.47	22.04	BDL	25.97	31.21	31.83				25.96	420	mg/kg
Lead	31.85	23.00	18.48	23.98	20.00	23.00	25.39	26.00	35.80				25.28	1,100	mg/kg
Selenium	6.83	6.02	BDL	BDL	BDL	BDL	BDL	BDL	BDL				6.43	34	mg/kg
Zinc	693.50	622.00	657.50	560.50	612.00	640.00	707.00	734.00	764.50				665.67	4,200	mg/kg
Nutrients and Physical Properties															
Total Moisture	86.57	85.77	88.34	86.57	87.36	87.51	86.78	86.91	86.89				86.97	n/a	%
Total Organic Carbon			335,900		345,000				329,900				336,933	n/a	mg/kg
Total Kjeldahl Nitrogen			52,400		51,900				35,300				46,533	n/a	mg/kg
Ammonium - N			14,836		14,373				14,584				14,598	n/a	mg/kg
Nitrate and Nitrite-N			19.96		5.14				3.70				9.60	n/a	mg/kg
Total Potassium			20,500		20,200				19,900				20,200	n/a	mg/kg
Total Phosphorus			31,700		34,000				34,600				33,433	n/a	mg/kg
Pathogens															
Fecal Coliforms	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	n/a	1,000	MPN/g
Salmonella	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 Results presented on a dry weight basis

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

NOTE - Each sample represents a composite of a minimum of 3 grab samples collected directly from the discharge point of the process reactor on a daily basis.

n/a - not available

NEG - negative