

Southgate OMRC

Public Advisory Committee

Minutes from PAC Meeting #28

LYSTEK SOUTHGATE ORGANIC MATERIALS RECOVERY CENTRE

Thursday, May 31, 2018

TIME: 7 pm

LOCATION: Southgate OMRC Facility – Eco Park

ATTENDEES:

Steve Redmond (Chair), Glen Irwin, David Hiscock
Simon Meulendyk, Adrienne Van Dyk – Lystek,
John Woodbury - Township of Southgate Councillor
Guest: Barbara Dobreen - Township of Southgate Councillor
Guest: Connie Hiscock – Dundalk resident, Regrets: Karen Cheeseman

AGENDA TOPICS:

Item	Description	Action By
1.	Welcome	Steve
2.	Review of previous meeting minutes Steve provided a review of the minutes from the December 2018 PAC meeting.	Accepted by consent via email within two weeks of last meeting
3.	Approval of Agenda	Moved by Glen Irwin Seconded by David Hiscock
4.	Public and Media Attendance – Re: Question Period and Code of Conduct	Steve
5.	Operations Update The OMRC continues to operate with 2-3 shifts per day with consistent numbers for production and volume of material. A summary of incoming material can be found at the end of the minutes. Organizational Changes Lystek currently has 9 full time employees. Since December 2017, one person has left the company and one new person was hired.	Simon Meulendyk

	<p>Land Application: The cool, wet spring of 2018 delayed land applications of LysteGro. Applications began on May 1st and 12, 000 cubic metres have been land applied on approximately 1,000 acres.</p> <p>2018 Field Study: A study to evaluate LysteGro applications on hay will be conducted by Lystek in 2018. The PAC members are interested in viewing some of the fields where LysteGro has been applied and a tour is being arranged for July 2018.</p> <p>Environmental Compliance Approval (ECA): Lystek has made a request to the MOECC for two amendments to the existing ECA.</p> <ol style="list-style-type: none"> 1. Due to the consistency of the incoming materials, and existing requirement for analysis of the materials by the generators, Lystek has made a request to reduce the frequency of the testing of the material produced from the reactor from weekly to monthly. <p><i>The PAC members agree with this request due to the consistency of the analysis that has been reported in the weekly sample results shown in the quarterly reports.</i></p> <ol style="list-style-type: none"> 2. Lystek has also made a request to amend the ECA to expand the list of Incoming Materials to include compost leachate. 	
<p>6.</p>	<p>Community Concerns Councillor Dobreen continues to receive phone calls and is copied in on emails from Southgate residents regarding odours in Dundalk. PAC members discussion:</p> <ul style="list-style-type: none">) The odours tend to be discovered at 5:00 pm (near the end of the work day) and the MOECC response and follow-up site visits to Dundalk on the following morning has resulted in no odour detection.) The term “phantom odour” has been coined to describe the detection of odours that may dissipate before the MOECC can detect or verify the odour and attempt to identify the source. 	

7.	<p>Monitoring Reports</p> <p>The PAC reviewed the monitoring reports for 4th quarter 2017 and 1st quarter 2018. (<i>attached to PAC minutes</i>). 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>	Simon
8.	<p>New Business:</p> <ol style="list-style-type: none"> 1. ECA Amendments (see above) 2. Biosolid Material Storage in Lambton County: The Chair shared pictures of the LaSalle Agri storage facility that is being used to store commercial fertilizer products derived from biosolids originating from Toronto, Windsor and Detroit, Michigan. The method of storage and winter application methods used by landowners is causing concerns with many local farmers. Commercial fertilizers are regulated under the Fertilizer Act and there is no restriction on winter applications. <p>Website for LaSalle Agri: http://lasalleagri.com/products/</p>	
9.	<p>Action Items:</p> <p>The PAC will plan a tour of locations involved in the 2018 study of LysteGro applications to hay fields.</p> <p>The purpose of the workshop is for interested PAC members and Southgate Council members to experience and understand the field application of LysteGro fertilizer on hay fields.</p>	Steve & Simon to coordinate site visit for Saturday July 14, 2018.
	<p>Next meeting is planned for Thursday, November 27th 2018 at 7 pm in the Southgate Organic Materials Recovery Centre boardroom.</p>	
	<p>Adjourn Meeting</p>	Moved by David Hiscock

Incoming Material Summary		
Type	Volume (trucks) per day	Municipality
Cake (solid)	5-6	Toronto (Ashbridges Bay & Highland Creek WWTPs), Guelph, Muskoka (Huntsville and Gravenhurst)
Liquid	2-3	Orangeville, Durham, Arthur, Mono, Tay Township and Biox

Attachments:

) *Monitoring Reports for 4th 2017 and 1st quarter 2018.*

The Southgate OMRC PAC is a condition of the MOE'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 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 4 - 2017 Oct Nov Dec

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

Constituent	Oct 2 - 6	Oct 9 - 13	Oct 16 - 20	Oct 23 - 27	Oct 30 - Nov 3	Nov 6 - 10	Nov 13 - 17	Nov 20 - 24	Nov 27 - Dec 1	Dec 4 - 8	Dec 11 - 15	Dec 18 - 22	Dec 25 - 29	Quarterly Average	Maximum Allowable Metal Concentration ^a	Units
Metals																
Arsenic	2.72	1.35	1.68	2.52	2.52	1.92	2.22	2.09	2.11	2.58	2.42	2.51	2.04	2.21	170	mg/kg
Cadmium	2.23	2.03	1.78	3.17	1.93	2.45	2.99	3.07	1.89	2.15	2.28	1.85	2.27	2.31	34	mg/kg
Cobalt	2.79	2.82	3.23	4.12	3.93	3.73	4.88	4.06	2.77	2.27	2.11	1.96	2.17	3.14	340	mg/kg
Chromium	36.86	41.49	38.72	45.69	54.45	34.54	52.30	52.45	38.00	43.25	39.13	31.70	37.27	41.99	2,800	mg/kg
Copper	380.00	354.10	348.30	423.75	454.15	311.95	540.00	439.85	340.80	395.30	369.10	314.30	331.30	384.84	1,700	mg/kg
Mercury	0.20	0.20	BDL	0.30	0.60	BDL	0.50	0.40	BDL	0.90	0.60	0.30	0.30	0.43	11	mg/kg
Molybdenum	7.30	7.40	7.00	8.90	9.20	7.10	12.70	13.20	8.20	6.70	6.80	5.70	6.20	8.18	94	mg/kg
Nickel	13.52	16.11	15.37	17.99	17.29	14.61	22.22	23.07	17.01	15.27	12.22	10.88	12.07	15.97	420	mg/kg
Lead	47.49	50.60	48.10	91.00	53.00	47.44	26.99	59.80	46.41	45.16	43.36	38.99	46.40	49.60	1,100	mg/kg
Selenium	BDL	2.98	1.91	4.10	2.20	1.76	BDL	5.99	3.52	4.27	1.79	2.42	4.47	3.22	34	mg/kg
Zinc	492.90	528.00	589.00	603.00	740.50	492.40	812.00	604.00	454.90	442.75	369.15	371.75	383.20	529.50	4,200	mg/kg
Nutrients and Physical Properties																
Total Moisture	85.26	78.04	78.48	83.36	81.54	77.16	87.38	84.21	77.23	79.66	82.84	80.85	80.28	81.25	n/a	mg/kg
Total Organic Carbon	367,400	336,000	346,200	317,500	313,100	345,000	344,200	312,100	351,400	345,900	364,800	357,600	360,800	343,231	n/a	mg/kg
Total Kjeldahl Nitrogen	39,300.00	25,600.00	26,000.00	32,200.00	31,300.00	24,600.00	38,000.00	31,900.00	24,800.00	28,800.00	43,000.00	31,400.00	29,500.00	31,262	n/a	mg/kg
Ammonium - N	9,037.38	9,095.13	9,184.53	13,370.97	10,143.28	7,429.86	9,107.21	6,923.43	8,973.17	8,582.40	7,639.04	7,382.92	6,108.11	8,690.57	n/a	%
Nitrate and Nitrite-N	18.96	5.30	4.86	7.80	21.00	9.68	43.60	10.86	29.80	5.58	8.90	7.32	6.88	13.89	n/a	mg/kg
Total Potassium	16,400	14,500.00	13,000.00	22,900.00	14,300.00	15,000.00	14,600.00	19,500.00	14,700.00	15,900.00	15,800.00	14,400.00	14,000.00	15,769	n/a	mg/kg
Total Phosphorus	17,800	16,700.00	17,700.00	19,900.00	23,600.00	16,900.00	30,500.00	21,100.00	17,600.00	20,200.00	18,200.00	16,800.00	17,300.00	19,562	n/a	mg/kg
Pathogens																
E.coli														n/a	n/a	MPN/g
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	<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. 8850-8V6S7Z

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 - 2018

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



Constituent	Jan 1 - 5	Jan 8 - 13	Jan 15 - 29	Jan 22 - 26	Jan 29 - Feb 2	Feb 5 - 9	Feb 12 - 16	Feb 19 - 23	Feb 26 - March 2	March 5 - 9	March 12 - 16	March 19 - 23	March 26 - 30	Quarterly Mean	Maximum Allowable Metal Concentration ^a	Units
Metals																
Arsenic	3.31	3.00	3.24	3.42	3.13	2.48	2.46	4.00	2.72	3.25	2.58	3.60	3.61	3.14	170	mg/kg
Cadmium	2.57	2.00	0.72	1.55	1.54	1.64	2.76	2.30	2.35	2.89	2.00	2.29	2.45	2.08	34	mg/kg
Cobalt	2.92	2.43	2.30	2.51	2.12	2.01	1.65	2.44	2.92	3.02	2.55	2.89	3.00	2.52	340	mg/kg
Chromium	45.57	41.74	49.22	38.61	35.49	32.82	25.71	33.41	56.80	53.00	30.93	43.34	48.27	41.15	2,800	mg/kg
Copper	469.70	369.05	385.25	435.70	357.25	344.05	283.90	377.85	476.55	508.00	341.50	439.30	492.70	406.22	1,700	mg/kg
Mercury	0.60	0.40	0.50	0.60	0.10	0.50	0.40	0.50	0.50	0.50	0.40	0.40	0.30	0.44	11	mg/kg
Molybdenum	7.90	5.90	6.80	7.30	5.60	5.80	4.80	5.90	7.10	7.10	5.20	6.90	7.40	6.44	94	mg/kg
Nickel	16.57	17.62	18.31	14.09	12.69	11.74	8.92	11.02	19.42	18.45	12.02	22.29	16.33	15.34	420	mg/kg
Lead	62.75	45.00	51.75	52.20	50.45	56.05	40.32	44.00	54.85	63.40	40.83	64.40	67.35	53.33	1,100	mg/kg
Selenium	6.79	3.83	7.25	7.30	7.26	7.67	4.39	6.29	6.11	9.18	6.35	11.51	7.28	7.02	34	mg/kg
Zinc	541.50	388.85	349.25	430.60	363.25	282.55	265.00	309.00	465.05	497.55	349.50	450.50	487.40	398.46	4,200	mg/kg
Nutrients and Physical Properties																
Total Moisture	82.03	79.13	82.78	82.56	82.07	84.24	81.68	84.61	83.75	82.77	78.82	85.01	84.91	82.64	n/a	mg/kg
Total Organic Carbon	324,800	345,500	359,700	340,100	362,500	383,900	374,500	367,000	328,600	297,000	334,500	308,100	308,800	341,154	n/a	mg/kg
Total Kjeldahl Nitrogen	27,700	33,190	37,100	33,800	33,600	40,700	34,642	48,000	33,500	30,300	22,700	30,900	35,400	33,964	n/a	mg/kg
Ammonium - N	9,569.89	7,887.93	8,801.51	11,098.39	7,867.82	5,844.04	7,062.01	10,430.67	10,848.55	11,719.50	10,644.19	11,512.87	12,441.35	9,671	n/a	%
Nitrate and Nitrite-N	22.60	10.22	2.88	12.58	3.64	4.94	20.40	8.90	29.40	7.68	5.94	BDL	10.40	11.63	n/a	mg/kg
Total Potassium	14,100	12,200	18,400	15,200	17,600	20,900	17,600	16,700	16,000	16,500	10,700	14,600	19,800	16,176.92	n/a	mg/kg
Total Phosphorus	24,700	19,500	17,800	20,800	17,200	17,700	14,700	18,800	24,900	25,400	18,900	25,300	27,500	21,015.38	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	<1.8	n/a	<1000	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. 8850-8V657Z

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

Note - Each sample represents a composite of a minimum of 5 grab samples collected directly from the discharge point of the process reactor on a daily basis.

BDL - Below Detectable Level

n/a - not available

NEG - negative