

Southgate OMRC

Public Advisory Committee

Minutes from PAC Meeting #26

LYSTEK SOUTHGATE ORGANIC MATERIALS RECOVERY CENTRE

Tuesday, May 23, 2017

TIME: 7 pm

LOCATION: Southgate OMRC Facility – Eco Park

ATTENDEES:

Steve Redmond (Chair), Glen Irwin, Karen Cheeseman, David Hiscock

Simon Meulendyk, – Lystek,

Absent: John Woodbury - Township of Southgate Councillor

AGENDA TOPICS:

Item	Description	Action By
1.	Welcome	Steve
2.	Review of previous meeting minutes Steve provided a quick review of the minutes from the November 2016 PAC meeting.	Accepted by consent via email within two weeks of last meeting
3.	Approval of Agenda	Moved by David Hiscock Seconded by Karen C.
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 There are currently 10 full time employees. Land Application: Spring applications were late due to rainfall and wet soil conditions. Approximately 7,000 cubic metres have been applied to-date (May 23).	Simon Meulendyk

	<p>2017 Field Studies This will be the third year for LysteGro field trials. The Georgian Central Soil & Crop Improvement Association will continue to evaluate the product versus commercial fertilizer. The study to evaluate LysteGro, commercial fertilizer and digestate will also be conducted again in 2017. This study is looking at “In-Crop” applications of the products in corn at the side-dress nitrogen timing.</p> <p>MOECC Odour Assessment A study has been completed by the engineering firm GHD to identify potential sources of fugitive emissions. The report was due and submitted on May 31, 2017</p>	
6.	<p>Community Concerns The article from the February 1, 2017 Dundalk Herald titled “Recent odour complaints in Dundalk” was discussed. The Fugitive Odour Assessment discussed in Item 5 may address the concerns raised in this article.</p>	
7.	<p>Monitoring Reports The PAC reviewed the 4th quarter 2016 & 1st quarter 2017 monitoring reports (<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>Action Items: The PAC will plan a site visit to a LysteGro application site in 2017. The purpose of the workshop is for interested PAC members to experience and understand the field application of LysteGro fertilizer on hay fields.</p>	Steve & Simon to coordinate site visit for a Saturday in late June or July.
	<p>Next meeting is planned for Tuesday, November 21st, 2017 at 7 pm in the Southgate Organic Materials Recovery Centre boardroom.</p>	
	<p>Adjourn Meeting</p>	Moved by Glen Irwin

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

Attachments:

-) Monitoring Reports for 4th quarter 2016 and 1st quarter 2017

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 4 - 2016 Oct Nov Dec

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

Constituent	October 3 - 7	October 10 - 14	October 17 - 21	October 24 - 28	October 31 - November 4	November 7 - 11	November 14 - 18	November 21 - 25	November 28 - December 2	December 9	December 12 - 16	December 19 - 23	December 26 - 30	Quarterly Average	Maximum Allowable Metal Concentration ^a	Units
Metals																
Arsenic	2.81	3.00	2.40	2.44	1.97	1.71	2.33	2.97	2.21	2.17	2.21	2.54	2.35	2.39	170	mg/kg
Cadmium	1.64	2.02	1.76	1.68	1.81	1.60	2.00	2.51	2.02	1.39	1.33	1.45	1.75	1.77	34	mg/kg
Cobalt	2.67	3.64	2.66	2.47	2.88	2.21	3.66	4.13	3.48	2.27	1.99	2.72	3.47	2.94	340	mg/kg
Chromium	64.80	61.60	45.36	47.01	68.45	62.10	94.65	94.00	58.85	44.48	42.83	47.77	62.70	61.12	2,800	mg/kg
Copper	536.50	525.00	461.65	424.15	486.60	400.90	711.00	641.50	486.30	458.35	388.40	435.20	526.50	498.62	1,700	mg/kg
Mercury	0.67	0.60	BDL	0.44	0.59	0.45	0.69	0.62	0.60	0.50	0.40	0.38	0.49	0.54	11	mg/kg
Molybdenum	9.00	11.10	10.30	10.00	9.00	6.90	10.70	11.70	9.20	8.10	6.80	9.10	10.80	9.44	94	mg/kg
Nickel	19.68	20.80	15.62	13.90	19.87	19.04	23.25	20.08	18.78	14.31	13.38	14.03	20.31	17.93	420	mg/kg
Lead	24.06	22.54	20.83	14.23	18.35	28.40	29.44	38.11	23.64	17.55	14.91	18.12	24.12	22.64	1,100	mg/kg
Selenium	BDL	BDL	1.40	BDL	BDL	BDL	BDL	BDL	BDL	1.91	1.37	BDL	BDL	1.56	34	mg/kg
Zinc	575.00	670.00	542.00	540.50	564.00	472.90	715.00	788.00	637.50	457.80	404.25	494.25	593.50	573.44	4,200	mg/kg
Nutrients and Physical Properties																
Total Moisture	86.01	86.81	86.86	87.11	85.93	85.34	85.58	85.22	85.51	87.01	85.69	86.09	85.14	86.02	n/a	%
Total Organic Carbon	376.500	367.600	398.500	411.400	369.500	408.000	351.300	339.600	355.600	407.800	402.100	404.200	358.400	380.808	n/a	mg/kg
Total Kjeldahl Nitrogen	37.300	40.800	45.400	48.000	42.700	46.700	40.300	37.000	47.300	46.100	46.700	48.600	42.800	43.823	n/a	mg/kg
Ammonium - N	15,319.87	10,949.58	12,366.70	9,026.61	14,238.31	1,192.58	12,843.90	13,689.92	7,725.05	8,124.94	6,314.12	8,662.98	7,344.89	9,831	n/a	mg/kg
Nitrate and Nitrite-N	9.90	15.46	51.60	10.78	6.68	19.84	17.48	16.86	21.40	13.72	10.34	25.20	62.60	21.68	n/a	mg/kg
Total Potassium	22.900	22.200	21.200	15.800	6.000	15.000	15.700	14.900	14.700	21.900	14.600	16.000	15.000	16.608	n/a	mg/kg
Total Phosphorus	21.600	57,100.00	19,400.00	19,500.00	26,300.00	21,400.00	27,000.00	28,000.00	35,700.00	16,600.00	20,700.00	26,700.00	23,300.00	26,408	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 - 2017

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

Constituent	Jan 2 - 6	Jan 9 - 13	Jan 16 - 20	Jan 23 - 27	Jan 30 - Feb 3	Feb 6 - 10	Feb 13 - 17	Feb 20 - 24	Feb 27 - March 3	March 6 - 10	March 13 - 17	March 20 - 24	March 27 - 31	Quarterly Mean	Maximum Allowable Metal Concentration ^a	Units
Metals																
Arsenic	2.01	2.23	2.77	3.14	2.41	2.46	1.15	2.27	1.65	3.61	2.59	2.09	2.80	2.40	170	mg/kg
Cadmium	1.73	1.84	1.77	1.84	1.28	1.30	1.15	1.62	1.31	1.46	1.12	1.25	1.54	1.48	34	mg/kg
Cobalt	2.80	3.54	3.75	3.67	2.48	2.74	1.73	2.68	2.02	2.93	2.22	2.17	3.12	2.76	340	mg/kg
Chromium	60.60	86.35	87.00	79.15	49.08	45.69	40.44	46.77	45.86	52.65	42.77	40.20	55.30	56.30	2,800	mg/kg
Copper	401.45	567.00	531.50	557.50	420.90	348.90	355.35	395.20	380.65	510.00	390.10	417.80	480.40	442.83	1,700	mg/kg
Mercury	0.04	0.61	0.66	0.42	0.20	0.50	0.60	0.40	1.00	0.70	0.30	0.20	0.40	0.46	11	mg/kg
Molybdenum	6.90	8.10	7.40	8.00	6.00	5.50	5.30	6.50	5.80	6.80	5.70	6.40	6.50	6.53	94	mg/kg
Nickel	20.20	20.23	21.31	22.95	15.23	14.34	10.68	15.49	13.30	17.36	14.11	12.09	19.98	16.71	420	mg/kg
Lead	19.79	31.62	35.32	31.72	20.93	20.48	16.00	19.39	15.88	27.84	20.20	16.00	24.26	23.03	1,100	mg/kg
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.32	BDL	2.49	1.91	34	mg/kg
Zinc	417.85	595.50	643.00	602.00	439.65	436.20	389.85	484.85	451.10	543.50	421.70	458.15	557.50	495.45	4,200	mg/kg
Nutrients and Physical Properties																
Total Moisture	83.10	83.41	83.10	83.98	83.54	82.46	82.80	81.37	84.83	82.98	84.61	85.18	84.51	83.53	n/a	mg/kg
Total Organic Carbon	388,700	340,200	306,700	324,400	709,000	370,200	409,400	384,800	417,400	363,600	398,000	391,500	349,200	396,392.31	n/a	mg/kg
Total Kjeldahl Nitrogen	47,400	38,900	35,700	33,500	44,000	40,800	47,100	39,800	47,100	38,300	40,800	42,600	37,100	41,007.69	n/a	mg/kg
Ammonium - N	7,433.79	11,421.40	11,291.30	11,204.31	3,716.71	7,737.69	2,752.56	6,370.75	7,669.48	8,764.92	12,426.51	5,316.06	1,458.28	7,504.90	n/a	%
Nitrate and Nitrite-N	81.00	38.00	77.40	104.20	57.60	82.60	71.60	140.20	30.70	21.40	37.40	72.40	87.80	69.41	n/a	mg/kg
Total Potassium	12,700	8,900	11,200	10,800	20,400	14,200	11,600	15,400	21,900	14,000	15,000	11,700	13,800	13,969.23	n/a	mg/kg
Total Phosphorus	23,300	26,400	25,800	23,300	23,500	20,800	17,700	20,000	21,600	23,100	20,200	43,900	24,200	24,138.46	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