

Southgate OMRC

Public Advisory Committee

Minutes from PAC Meeting #17

LYSTEK SOUTHGATE ORGANIC MATERIALS RECOVERY CENTRE

DATE: Tuesday, May 13, 2013

TIME: 7 pm

LOCATION: Southgate OMRC Facility – Eco Park

ATTENDEES:

Steve Redmond – Chair

Mary Fowler, Grant Preston, Sarah Mason, Karen Cheeseman, Glen Irwin

Mike Dougherty - Lystek

AGENDA TOPICS:

Item	Description	Action By
1.	Review of previous meeting minutes	Accepted by consent via email within two weeks of last meeting
2.	Approval of Agenda	Moved by Mary Fowler Seconded by Sarah Mason
3.	Public and Media Attendance – Re: Question Period and Code of Conduct	Steve
	Operations Update <i>Operations</i> Lystek continues to wait for the CFIA (Canadian Food and Inspection Agency) label that will allow the material from the Dundalk facility to be applied as a NASM. Therefore the Lystek product is still being classified as a NASM (non-agricultural source material) and the outgoing product is only able to be land applied to agricultural fields with appropriate NASM plans. The result is that Lystek has limited the amount of incoming material (liquid & solid) until the CFIA label is completed in order to keep the storage lagoon below its capacity. The OMRC is bringing in between 1-2 loads of solid material per day and also 1-2 loads of liquid	Mike Dougherty Chair's note: The CFIA label was received on May 29, 2014

	<p>material per day. (see summary at bottom of the minutes).</p> <p>Lystek has decreased the number of shifts from 3 to 2 per day, operating about 12-16 hours per day due to the reduction in incoming material.</p> <p>As discussed at the March PAC meeting the third reactor has been commissioned, however with the decreased processing one to two reactors are being utilized at a time. The reactors are operated on a regular rotation to maintain consistency of use.</p> <p>A second potassium hydroxide tank has been installed to increase holding capacity.</p> <p>The earthworks have been completed for the second lagoon and it is being dewatered currently. Lystek is hopeful that this lagoon will be commissioned by the end of the summer.</p> <p>Air Quality Monitoring:</p> <p>Source testing was completed by an external consulting company on February 13, 2014. This testing confirmed that emissions from the facility are well below the MOE regulated limits.</p> <p>The biofilter material is being tested about every one and a half months to ensure quality of the product inside the biofilter such that it remains at optimal functionality.</p> <p>New Staff</p> <p>Lystek has hired David Rae as an operations manager, Chris McCrae as an operator, and Simon Meulendyk as a quality control technician. All are local residents. Lystek is looking to fill one more position.</p>	
	<p>Community Concerns</p> <p><i>Leak of incoming material in April</i></p> <p>A truck transporting cake biosolids, 'leaked' material on April 14th, 2014.</p> <p>Mike suspects that the material was more liquid (less viscous) than normal cake material and that the seal on the back of the truck was not effective to fully contain the biosolids as the truck was accelerating and decelerating.</p> <p>When the truck was driving at a consistent speed there seemed to be no issues of leakage. The leaked material was characterized as small 'plops'</p>	<p>Mike Dougherty</p>

	<p>about a few inches in diameter once flattened on the ground. Mike followed the truck route from the Southgate OMRC site to Conn examining the roadway and cleaning up the dispersed ‘plops’ as best as possible.</p> <p>The leak, and subsequent clean-up, was the responsibility of the trucking company and not Lystek’s, however Mike wanted to examine the roadway to determine the extent of the leak and to facilitate clean up in a timely manner.</p> <p>Mike commented that the leakage was concentrated around stop signs indicative of the movement of the product in the truck and subsequent leakage from the acceleration and deceleration previously mentioned.</p> <p>To mitigate this issue in the future the trucking company has added an additional seal and lock and has instructed their drivers to increase the amount of straw that is regularly utilized as an additional barrier between the truck gate and biosolids.</p>	
	<p>Monitoring Reports</p> <p><i>Review of 1st quarter product analysis results</i></p> <p>January 1, 2014 to March 28, 2014</p> <p>Thirteen weekly samples were taken and sent for samples investigating the regulated metals, nutrients and physical properties and pathogens. The PAC reviewed the product levels of each sample taken as well as the quarterly average levels. Similar to last quarter, regulated levels are well below regulated levels with pathogens levels below detection.</p> <p>Analysis results are attached.</p>	Mike
	<p>New Business:</p> <p><i>June Newspaper ads for New Members</i></p> <p>The PAC agreed that the ad should run twice in June in both the Confederate and Herald advertising for new members. All Southgate township residents or taxpayers are welcome to join.</p>	

	Next meeting is planned for Tuesday, July 15, 2014 at 7 pm in the Southgate Organic Materials Recovery Centre boardroom.	
	Adjourn Meeting	Moved by Grant Preston Seconded by Karen Cheeseman

Incoming Material Summary		
Type	Volume (trucks) per day	Municipality (s)
Cake (solid)	1-2	Toronto, Halton, Guelph
Liquid	1-2	Walkerton, Orangeville, Centre Wellington

The Southgate OMRC PAC is now 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, Ontario. Members of the PAC meet on a bi-monthly basis. Currently, there are five volunteer community members and a chairperson on the committee. Members of the PAC include Grant Preston a retired farmer and former Reeve of Proton Twp., Glen Irwin, a local business person and Southgate Twp. councillor, Mary Fowler, a freelance reporter and former editor of The Dundalk Herald, Sarah Mason, a local university student and Karen Cheeseman, a local graphic artist. 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 1 - 2014 Jan Feb Mar

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

Constituent	Dec 30-Jan 3	Jan 6-10	Jan 13-17	Jan 20-24	Jan 27-31	Feb 3-7	Feb 10-14	Feb 18-21	Feb 24-28	Mar 3-7	Mar 10-14	Mar 17-21	Mar 24-28	Quarterly Mean	Maximum Allowable Metal Concentration ^a	Units
Metals																
Arsenic	2.30	3.00	2.40	2.10	2.40	2.40	2.60	2.00	1.50	4.90	3.70	3.20	3.10	2.74	170	mg/kg
Cadmium	1.93	2.28	2.90	1.88	2.64	2.33	2.43	2.32	1.97	2.69	2.12	2.05	2.18	2.29	34	mg/kg
Cobalt	2.42	2.29	2.45	2.75	3.90	2.92	3.17	2.69	2.76	2.78	2.77	2.71	3.02	2.82	340	mg/kg
Chromium	57.50	67.15	80.70	66.40	79.35	88.55	74.90	76.10	75.95	96.50	95.20	80.45	85.50	78.79	2,800	mg/kg
Copper	954.30	753.60	815.40	996.60	943.25	1128.90	835.50	1117.20	1067.40	942.60	926.10	1094.40	645.60	940.07	1,700	mg/kg
Mercury	0.53	0.35	0.18	0.28	0.27	0.30	0.33	0.51	0.32	0.23	0.26	0.36	0.33	0.33	11	mg/kg
Molybdenum	6.89	8.93	9.36	8.88	9.13	10.04	9.31	8.64	8.15	8.95	9.09	8.67	7.37	8.72	94	mg/kg
Nickel	20.20	15.02	20.08	18.24	23.21	22.08	21.83	21.39	20.75	24.33	27.00	24.25	21.86	21.56	420	mg/kg
Lead	31.31	37.46	34.26	33.12	54.20	33.44	26.75	36.24	39.06	30.54	36.95	46.38	29.14	36.07	1,100	mg/kg
Selenium	2.10	1.50	1.80	2.40	2.20	1.70	1.80	2.60	2.80	2.80	3.90	3.00	1.80	2.34	34	mg/kg
Zinc	652.80	691.80	690.60	762.60	880.75	849.00	812.70	784.80	851.40	815.10	785.70	805.20	789.30	782.44	4,200	mg/kg
Nutrients and Physical Properties																
Total Moisture	86.96	89.39	88.33	90.15	89.02	89.05	87.87	87.92	88.13	86.98	87.15	86.90	86.71	88.04	n/a	%
Total Organic Carbon	353,300	325,500	327,700	331,700	335,000	338,500	329,500	340,300	334,900	321,800	327,100	326,000	326,500	332,138	n/a	mg/kg
Total Kjeldahl Nitrogen	35,800	36,500	36,700	35,000	39,600	39,900	36,700	39,900	37,100	35,200	37,600	35,900	37,500	37,185	n/a	mg/kg
Ammonium - N	16,293.87	15,958.25	15,643.87	20,707.92	12,610.29	16,871.87	15,876.26	10,272.02	12,143.81	11,607.83	12,795.02	13,552.29	13,601.43	14,456.52	n/a	mg/kg
Nitrate and Nitrite-N	3.80	135.60	75.00	7.66	95.00	14.26	10.32	8.12	32.20	43.40	54.60	25.00	18.50	40.27	n/a	mg/kg
Total Potassium	15,700	19,500	19,600	21,000	20,800	11,000	17,100	19,400	17,300	17,100	13,700	18,500	17,300	17,538	n/a	mg/kg
Total Phosphorus	27,400	32,400	30,700	34,400	35,000	31,000	37,700	33,800	30,800	39,600	32,800	33,300	29,200	32,931	n/a	mg/kg
Pathogens																
E.coli	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	n/a	MPN/g
Fecal Coliforms	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	1,000	MPN/g
Salmonella	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	<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