

**Peterborough County/City Waste Management
Site Liaison Committee Meeting
Tuesday, January 19, 2010 at City Hall**

In attendance:

Committee Members: Reeve Dave Nelson - Chairman, Mayor Paul Ayotte, Councillor Shirley Eggleton, Deputy Reeve Paul Heath, Chuck White

Staff Members: Chris Bradley – County, Melanie Kawalec – City

General Public: John Smit

Consultant: Chris Visser – Golder and Associates

Regrets: Roy Craft, Steve St. Jean

Chairman Reeve Nelson called the meeting to order at 7:05 pm.

Discussion on the annual election of chair was held however consensus of the group was that Reeve Nelson, retain the Chair for another year.

1. Approval of Minutes

Moved by: Mayor Paul Ayotte

Seconded by: Deputy Reeve Paul Heath

“That the Site Liaison Committee minutes of July 7, 2009 be approved as presented.”

Carried

2. Business Arising from Minutes

Melanie Kawalec presented the 2010 revised Drinking Well Sampling Schedule that the SLC suggested by extended past the 2008/2009 deadline. A copy of the revised private well monitoring schedule is attached to the minutes.

Moved by: Mayor Paul Ayotte

Seconded by: Deputy Reeve Paul Heath

“That the Private Well Monitoring Schedule, revised November 2009, be approved as presented.”

Carried

3. SLC Draft Terms of Reference Update required by MOE

The committee reviewed the suggested changes and amended the Composition, the selection of chairperson and added a section that enabled the committee to recommend changes to the landfill operations to the Waste Management Committee.

Moved by: Mayor Paul Ayotte

Seconded by: Chuck White

“That the Site Liaison Committee Terms of Reference be approved, as revised, and forwarded to the Waste Management Committee for adoption.”

Carried

4. Waste Management Facility Operations Update

Melanie Kawalec presented a report outlining the operational updates as well as a preliminary draft of the 2009 tonnage summary. A copy of the report is attached to the minutes.

5. General Facility Complaints

Melanie Kawalec presented a report outlining the facility complaints from June through December 2009. A copy of the report is attached to the minutes.

John Smit attended the meeting to note the growing odour concern with the landfill site. The SLC have noted that the odour has become worse around the site with the introduction of the biosolids and wondered if there is any way in the next two year or until the biosolids are removed, to deal more effectively with the odour.

Chris Visser of Golder and Associates reported on his site walk about from earlier in the day: 1

- Landfill operations moving towards the West
- Very little odours at working face localized to filling area
- Biosolids providing operational challenges
- Most of the complaints attributed to biosolids
- Coincide delivery of biosolids with receiving of Municipal Solid Waste
- Two locations of odour; being at the gates and the ridge that has historical issues as identified in RWDI'S annual report
- Couple of wells were noted as having been rehabilitated
- Site operating as per C of A.

A copy of Chris Visser's January 2010 report is attached to the minutes.

6. Update on Biosolids

Melanie Kawalec advised that a Request for Proposal has been issued, closing in February 2010 that is looking for technology that can process biosolids into a viable resource or use on the land.

7. North Fill Area Development Schedule

Melanie Kawalec presented an update on the development of the new North Fill Area work schedule. The County is currently working on the Bensfort Road widening. A copy of the report is attached to the minutes.

8. Landfill Gas Utilization Project

The landfill gas applicant has met first round of approval with OPA FIT, as of January 8, 2010, which means they are in line. They are still awaiting confirmation of room within the grid.

9. Centralized Composting Facility

Program has been put on hold for the time being.

10. Airport Expansion

Consultants are conducting studies now for noise, wildlife and potential impact on the landfill operations. They are also looking at potential impacts of wildlife associated with the landfill as well as the local township.

Moved by: Councillor Shirley Eggleton **Seconded by:** Deputy Reeve Paul Heath

"That the Site Liaison Committee receive the written and verbal reports as presented."

Carried

11. Landfill Properties Update

Melanie Kawalec provided an update on the use and status of the landfill properties. A copy of the report is attached to the minutes.

12. Other Business

None.

13. Next Meeting

Next meeting is scheduled for July 13, 2010 at 7 p.m. at Stewart Hall.

14. Adjournment

Moved by: Mayor Ayotte **Seconded by:** Shirley Eggleton

"That the meeting now be adjourned."

Carried

The meeting adjourned at 8:24 pm.

Revised and sampling termination date extended as of November 2009

Property	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fomer Burton Residence 1211 Bensfort Road	X	X	X	X	X	X	X	X		X		X		X		X		X		X		X		X				X		X	
Fomer Stewart Residence 1918 Storrell Road	X	X	X	X	X	X		X		X		X		X		X		X		X		X		X		X		X			X
Former Kloosterman 1205 Bensfort Road	X	X	X	X	X	X		X		X		X		X		X		X		X		X		X		X		X			X
Former McCarrell 1276 Crowley Line	X	X	X	X	X		X		X		X		X		X		X		X		X		X		X		X			X	
Former DeGuerre 22 Hywood Road	X	X	X	X	X		X		X		X		X		X		X		X		X		X		X		X			X	
Former Carey 1915 County Road 2	X	X	X	X	X		X		X		X		X		X		X		X		X		X		X		X			X	
Craft 47 Hywood		X			X			X			X			X			X			X			X				X				
Former Patton 1333 Bensfort Rd		X			X			X			X			X			X			X			X				X			X	
St Jean 1895 County Road 2		X			X			X			X			X			X			X			X				X			X	
Former Whittington 1319 Cloverdale Line		X			X			X			X			X			X			X			X				X			X	
Chambers 1352 Cloverdale Line											X		X		X		X		X		X		X		X		X		X		X
Former Deyell 1850 Storrell Road			X			X			X			X			X			X			X			X			X				X
McIntyre 1941 County Road 2			X			X			X			X			X			X			X			X			X				X
Former DavisWhittington 1285 Cloverdale Line			X			X			X			X			X	Whittington Well Abandoned 2009															
Reid 1284 Cloverdale Line												X			X			X			X		X			X				X	
McCarrell 1959 County Road 2				X			X			X			X			X			X			X			X				X		X
Former Sipe 29 Hywood Road				X			X			X			X			X			X			X			X				X		X
Former Solterman 1915 Storrell Road				X			X			X			X			X			X			X			X				X		X
Former Jackson 1461 Bensfort Road				X		X	X			X			X			X			X			X			X				X		X
Taylor 1342 Cloverdale Line												X	X			X			X			X			X				X		X



City of
Peterborough

Report

TO: Site Liaison Committee

FROM: Melanie Kawalec, Manager of Waste Management

DATE: January 19, 2010

SUBJECT: Committee Reports on Agenda items No. 4, 5, 7, 11

4. Waste Management Facility Operations Update

- Biosolids from the Wastewater treatment plant were received for disposal
- In 2009 shingles were used in the wet season as an alternate cover material to float the trucks in and out of the cell
- Received another license to take down seagulls as a bird control option
- Will conduct another odour-tracing project, graphing the methane reading across the SFA which will become the primary resource of 2010 site maintenance and repairs
- Tipping fee for garbage increased from \$85 to \$90 per tonne effective January 1, 2010

2007 to 2009 Tonnage Summary (tonnes)

<u>Garbage</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
garbage	70,107.75	68,341.79	63,957.37
biosolids	0	Included in garbage	4,567.44
construction & demo	1,528.87	0.00	0
shingles	3,477.16	0.00	0
asbestos	65.27	348.49	152.49
dead stock	5.87	6.86	4.17
dead carp	0.00	6.86	0
contaminated soil-waste	407.07	6.17	127.77
	75,591.99	68,710.17	68,809.24
<u>Diversion</u>			
C & D	0.00	4,349.41	3,123.78
shingles	0.00	951.12	13.72
green waste	777.26	807.34	837.65
scrap metal	395.09	366.64	391.97
Electronics/TVs	0	0	64.96
tires	110.77	142.79	136.2
drywall	696.81	877.17	679.04
clean wood	0.00	113.05	4.33
cardboard/boxboard	123.47	139.38	126.48
mixed Recyclables	43.23	16.99	30.64
Total Diverted	2,146.63	7,763.89	5,408.77
Waste Sub-total	77,738.62	76,474.06	74,218.01

5. General Facility Formal Complaints: January - December 2009

October 8, 2009 - complaint by Dave Clement's that when he was outside of his house the odour that he could smell was similar to sewage.

Results: Craig called him back and explained that with the wet weather some of the wells get flooded which restricts the pull from the flare for that area. Also, the wet weather can reactivate the biosolids that are now disposed of on site. When staff checked the weather for the morning, he noticed that the wind was from the S/W at around 5 km/hr so this would be why he would smell the landfill this morning as his house is locate to the N/E of the landfill.

October 20, 2009 – complaint from Reeve Nelson and Deputy Reeve Heath, forwarded from Christine Wright about the odour at the site, along the front gate and noticeable biosolids.

Results: Staff noted that the winds were blowing from the east to the west last week, which is not normal for the site as they generally blow from west to east. With this change in direction, odours may have drifted toward Cloverdale Line and beyond to those areas that don't typically live with odours or impact from the landfill site. With the rainfalls the last couple of weeks, the site is quite wet which creates more odours.

December 21, 2009 – Reeve Nelson called to complain about the odour.

December 27, 2009 – Mike Taylor called to complain about the odour

Results: Waste Operations Coordinator called both people back and explained to them that he found that one of the landfill's gas wells had developed a small hole in the well casing cap. He removed the damaged cap and replaced it with a flanged rubber stopper to stop any more methane gas from leaving this well. There was also an area within the landfill that methane gas was migrating from an exposed area surrounding a leachate monitoring well. This area was filled in with high density clay in order to reduce the migrating gas's.

- **Landfill Offences:**

- January to December 2007 – 601 untarped loads of 996 total offenses*

- January to December 2008 – 620 untarped loads of 1,171 total offenses*

- January to December 2009 – 1,076 untarped loads of 1,414 total offenses*

7. North Fill Area Development Schedule

- 2010 Operational and Development Schedule for the Peterborough Waste Management Facility is:

<u>Activity</u>	<u>Date</u>
Construction of NFA Utilities	September to December 2009
Issue Construction Tender for NFA Cell 2	January 2010
Award Construction Tender for NFA Cell 2	March 2010
Construction NFA Cell 2	May – August 2010
Start Receiving Waste in Cell 2	September 2010 – April 2010, or as required
Return to SFA until full	May 2010 – December 2010, or as required
Bensfort Road Reconstruction	To be completed in 2011

Landfill Full Cost Accounting	City Finance Division reviewing project to see if it can be done in-house vs. Consultant; project initiation January 2010 – October 2010
Centralized Composting Facility	Project on hold, staff to regroup on options including private sector options
Landfill Gas Utilization Project	Construction pending approvals, tentatively scheduled for summer 2010
Installation of additional Gas Well SFA	February 2010 install in closed out areas; February 2011 install final wells, MOE Funding Grant requires project completion by March 2011

11. Landfill Properties Update

- House at 1333 Bensfort Road rented as of September 2009.
- House at 1205 Bensfort Road rented as of March 2009.
- Of the 9 houses: 7 are rented, 1 to be demolished (1399 Cloverdale Line) and 1 to be offered for rent as of May 2010 (1850 Storrell Road).
- All farmland is leased for crops or cattle to 4 area farmers.



January 29, 2010

Project No. 10-1182-0008

Ms. Christine Wright
Township of Otonabee-South Monaghan
Site Liaison Committee
Peterborough City/County Waste Management Facility
P.O. Box 70, Third Street
Keene, Ontario
K0L 2G0

**JANUARY 19, 2010 SITE INSPECTION – SFA
PETERBOROUGH CITY/COUNTY WASTE MANAGEMENT FACILITY (PCCWMF)**

Dear Ms. Wright:

This letter summarizes the observations made during a site walk-over inspection of Cell 1-North, Cell 1-South and the new Cell 1-West (Parts A & B) of the South Fill Area (SFA) at the PCCWMF (Bensford Road Landfill) on January 19, 2010. The inspection was carried out to satisfy conditions of Section 4.3.1, of Schedule "B" of Provisional Certificate of Approval (C of A) No. A341508 (December 22, 1993 and subsequent amendments) and to confirm that the site was being operated consistent with and in general compliance with the C. of A. presently applicable to the site. Development of Cell 1-West is governed under Notice No. 8 of the above C. of A.

1.0 SITE INSPECTION OBSERVATIONS

The site inspection was performed on the afternoon of January 19, 2010 by Mr. Chris Visser. The inspection consisted of an approximately 2 hour walk-over of the SFA (Cell 1-North, South and West) of the landfill site and the Public Drop-off area, and included observations of the site conditions and ongoing operations. Mr. Visser was accompanied by the landfill site manager, Mr. Craig Simmons, who provided additional information on site operations and recent maintenance works completed at the site. The following is a summary of the notable observations made during the walk-over inspection (refer to the attached Figure 1 for general locations and to the Site Inspection Report for notes).

1.1 Operations (Cell 1 – West)

On-going landfilling operations in the eastern portion of Cell 1-West B and the western portion of Cell 1-South/Cell 1 - North appear to generally follow the methods described/proposed in the "South Fill Area Design & Operations Report" dated January 2004, prepared by Conestoga-Rovers & Associates.

Waste had been placed over the entire portion of Cell 1-West A, the southern portion of Cell 1-West and the top of the eastern portion of Cell 1 - South/Cell 1 – North, and these areas have been contoured to the design top surface mound shape. Final cover has been placed over the eastern portion of Cell 1-South, and will receive topsoil in the spring of 2010. The new Cell 1-West B area has been partially filled to about half the design



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Ms. Christine Wright
Township of Otonabee-South Monaghan

10-1182-0008
January 29, 2010

elevation and interim cover has been placed over the waste. Landfilling of biosolid wastes from the wastewater treatment plant continues in the active fill areas of the landfill. It is our understanding that the disposal of biosolids at the site will be terminated during 2010;

The following is a summary of observations made during the site visit:

- no seagulls were observed on the active area of the landfill at the time of the site visit. Mr. Simmons indicated that the seagulls typically visit the site during certain times of the day, and that approval has been obtained to continue with the cull of birds similar to the year before;
- reportedly, there have been no complaints from the public or residents near the landfill regarding litter. Complaints have been received from the public and residents due to noticeable landfill gas odours along Bensford Road, including odours originating from the disposal of the biosolids;
- waste was being disposed at the active face in the eastern portion of Cell 1- South/Cell 1 - North;
- one waste compactor (Cat 826C) was being used to spread and compact the waste in lifts. A second waste compactor was recently damaged beyond repair due to an electrical fire. It is our understanding that this machine will be replaced by the landfill operator. A bulldozer was on-site being used for on-site maintenance;
- a large pile of roofing shingles (asphalt based) was present at the northwest corner of Cell 1-West B, reportedly to be ground into fine particles for use as daily cover and improving access roads to the tipping face under wet / soft ground conditions;
- daily cover soil (sandy material) is stockpiled on site and appears to be applied to the tipping face area on a daily basis;
- stone is stockpiled on site and it is our understanding this material is utilized for on-site roads;
- a large stockpile of topsoil has been placed in the southern section of Cell 1-West A to be utilized during the spring for top dressing of the areas with final cover;
- interim cover soil had been placed on the top surface of the south/west and central area of Cell 1-West B and along the north perimeter slope of the Cell 1-West A and western slopes of Cell1-South. In addition interim cover has been placed on the top surface of southern portion of the Cell 1-North area completed essentially to the final design grades. The final cover soil placed on the southern section of Cell 1-West A and along the top of the east perimeter of Cell 1-South still requires topsoil application in some areas and seeding throughout;
- maintenance repairs were completed to gas wells along the northern face of Cell 1-North; and
- the Public Drop-Off bins in the North Fill Area (NFA) appeared to contain materials specific to the signs posted and separation of materials appeared to be evident, including separate stockpiling of white goods, tires and brush.

1.2 Litter Control:

There was no litter noted on the East or North Slope of the landfill nor observed along Bensford Road. There was a litter fence located along the east side of the tipping area; the active face is located in a slightly depressed area and adjacent to a soil berm which reduced the potential for generation of wind borne litter. Litter pick-up by the site operator was underway during the time of the site visit.

Ms. Christine Wright
Township of Otonabee-South Monaghan

10-1182-0008
January 29, 2010

1.3 Landfill Gas (LFG) Control:

Faint and strong localized landfill gas odour was noted at three locations, namely: at the active landfill disposal area (faint); at the main site entrance from Bensford Road (strong); and at the east toe of Cell 1 - North opposite the locked gate south of the main entrance to the landfill site (strong).

Mr. Simmons indicated that the landfill gas incineration unit located in the NFA was in operation, but was down for maintenance earlier that day. It is our understanding that odours are detected at the above noted locations on a regular basis, and are being investigated by the City.

1.4 Leachate Management:

There were no leachate seeps observed during the time of the site visit.

1.5 Final Cover:

Final cover placement was recently completed along the top of the eastern portion of Cell 1-South. Placement of topsoil and hydroseeding of this area is scheduled to be completed in the spring of 2010.

1.6 Biosolids Odour:

No strong odour associated with the disposal of "Biosolids" waste from the wastewater treatment plant was detected during the site visit, although two piles/loads were visible at the time. Mr. Simmons indicated that odour complaints have been received relating to the management of the biosolids, and that the City has revised its on-site operations in attempts to minimize the off-site impacts, but that the management of the material remains an operational challenge. It is our understanding that the City will stop with the disposal of biosolids at the landfill in 2010.

2.0 SUMMARY

In summary, at the time of the site inspection the landfill operations were being implemented as described and proposed in the C. of A. supporting documents, and in general compliance with the conditions of the Certificate of Approval.

The above noted site observations were discussed with the landfill site manager (Mr. Craig Simmons) who indicated that appropriate actions would continue to be taken as required addressing deficiencies identified.

3.0 SITE LIAISON COMMITTEE MEETING:

The above site observations were reported by Mr. Visser at the Site Liaison Committee meeting held at City Hall on the evening of January 19, 2010.

We trust that the above details of our site inspection are sufficient for your immediate requirements. If you have any questions, please do not hesitate to contact us.

Yours truly,

GOLDER ASSOCIATES LTD.



Chris Visser
Senior Waste Specialist

CV/JMAC/cv

Ms. Christine Wright
Township of Otonabee-South Monaghan

10-1182-0008
January 29, 2010

CC: Ms. Melanie Kawalec, Waste Management Manager, City of Peterborough – 10 Copies for distribution to the SLC members.

Attachments: Figure 1 - Site Inspection – January 19, 2010
Site Inspection Report

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**SITE INSPECTION REPORT
PETERBOROUGH CITY/COUNTY WASTE MANAGEMENT FACILITY
(BENSFORT ROAD LANDFILL)**

Date of Inspection:	January 19 2010	Project Number:	10-1182-0008
Time of Inspection:	14:00 – 16:00	Weather Conditions:	Sunny, occ. overcast
Inspected by:	Chris Visser		Light to no wind (NW – SE), + 1°C

	Yes	No	Comments
1. Site Appearance Neat	✓		
2. Access Roads In Good Condition	✓		
3. Waste Compactor On Duty	✓		1 (CAT) – LF Compactor and 1 - Bulldozer
4. Tipping Area Litter Fences Used		✓	
5. Perimeter Litter Fences Used	✓		Snow-type fence
6. Litter Being Collected	✓		Litter collecting was taking place at time of the site visit.
7. Berms Around Active Area	✓		Waste berms
8. Daily Cover Being Used	✓		
9. Interim Cover In Good Condition	✓		
10. Final Cover In Good Condition	✓		
11. Repairs Made To Interim/Final Cover	✓		
12. Perimeter Ditches Unobstructed	✓		
13. Perimeter Ditches In Good Condition	✓		
14. Natural Slopes In Good Condition	✓		
15. Vegetative Cover In Good Condition	✓		Landfill partly snow covered
16. Evidence Of Surface Water Ponding		✓	
17. Evidence Of Leachate Seeps		✓	
18. Presence Of Leachate Odours		✓	
19. Presence Of LFG Odours *	✓		Strong along the toe perimeter road near north end. (Refer Figure 1)
20. Evidence Of LFG Vegetation Kill		✓	
21. Borrow Area In Good Condition	✓		Stockpiles
22. Public drop-off operated properly	✓		
23. Other Observations	✓		Stone and Compost overs stockpile adjacent to the daily cover (Cell 1 – North). Material utilized for improving access to the tipping face under wet / soft ground conditions.

Miscellaneous:

* LFG extraction well repairs recently completed by the City along the north face of Cell 1 - North

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