

Ministry of the Environment

Peterborough District Office

300 Water Street
2nd Floor, South Tower
Peterborough, ON K9J 8M5
Telephone: (705) 755-4300
Fax: (705) 755-4321

Ministère de l'Environnement

Bureau de district de Peterborough

300, rue Water
2^{ieme} etage, Tour Sud
Peterborough, ON K9J 8M5
Tél.: (705) 755-4300
Télééc.: (705) 755-4321



July 25, 2012

Mr. Doug Carroll
Manager of Planning
City of Kawartha Lakes
180 Kent Street West
Lindsay, Ontario K9V 2Y6

RE: Sample Results from the Taylor's Road Fill Site

Mr. Carroll:

On April 19, 2012, staff from the Ministry of the Environment's Peterborough District Office (the ministry) responded to a complaint of illegal waste dumping at 513 Taylor's Road (the site). Ministry staff met with a representative of Green for Life (GFL) on-site and collected samples of the fill material.

GFL has an Environmental Compliance Approval (ECA) #A680301 that authorizes the operation of a contaminated soil processing facility located at 1060 and 1070 Toy Avenue, Pickering, Ontario. Approval notice # 3, issued October 9, 2009, includes Condition 35 which states:

35. *No processed soil may leave the Site except to be deposited at a property or site in accordance with one of the following criteria:*

(f) *To any property, except a property considered a sensitive site as defined by Section 41 of O. Reg. 153/04, zoned for commercial or industrial land use and the soil meets the Table 2 Standards for the Residential/Parkland/Institutional Property Use.*

Analysis of the samples collected on April 19, 2012 indicated that the fill material met the ministry's Table 2 standards and therefore GFL were complying with their ECA.

Throughout the months of May and June, the Peterborough District Office continued to receive complaints from concerned citizens regarding the fill operation at the site. On June 21, 2012, district staff returned to site and collected four random samples from four different locations in the fill area. The samples were submitted to the ministry's laboratory for analysis.

Table 1 (attached) summarizes the results of the soil analysis and applicable standards from the June 21, 2012 samples. As illustrated in Table 1, all samples collected exceeded some of the ministry's residential soil standards for a potable and non-potable groundwater area. Furthermore, some of the samples exceeded the generally less stringent industrial standards for both a potable and non-potable groundwater area

GFL's ECA authorizes the placement of soil meeting Table 2 standards for residential/parkland/institutional property use in areas that are zoned industrial. The results from the fill samples collected on June 21, 2012 at the Taylor's Road site indicate numerous exceedances of the applicable standards as specified in condition 35(f) of ECA #A680301 and therefore, indicate non-compliance with the ECA.

The ministry has requested that GFL retain the services of a qualified consultant to undertake a comprehensive assessment of fill material deposited at the site to ensure compliance with ECA #680301. Furthermore, the Ministry has requested that a sampling plan be submitted for our review prior to undertaking the assessment as well as the opportunity to split samples during the assessment. It is our understanding that the placement of additional material would be ceased until the completion of the requested sampling.

Should you have any questions, please do not hesitate to contact myself at (705) 755-4326 or Dave Bradley at (705) 755-4307.

Sincerely,

Handwritten signature of Kelly K. Andreoli in cursive script.

Kelly K. Andreoli, P.Eng.
District Engineer

Attach. Table 1 – Summary of June 16, 2012 Soil Samples exceeding Ministry Standards

Table 1 - Summary of June 19, 2012 Soil Samples exceeding Ministry Standards

Contaminant	Sample Units	Sample Field IDs				Potable Groundwater Use		Non-potable Groundwater		Standards Units
		TR001	TR002	TR003	TR004	Table 2** Residential	Table 2** Industrial	Table 3** Residential	Table 3** Industrial	
		F1 (C6-C10)	mg/kg	10	10	10	10	55	55	
F2 (C10-C16)	mg/kg	26	14	26	12	98	230	98	230	ug/g
F3 (C16-C34)	mg/kg	520	520	480	220	300	1700	300	1700	ug/g
F4 (C34-C50)	mg/kg	180	220	210	120	2800	3300	2800	3300	ug/g
Aluminum	ug/g dry	13000	25000	14000	12000	NV	NV	NV	NV	ug/g
Antimony	ug/g dry	5	20	5	5	7.5	40	7.5	40	ug/g
Arsenic	ug/g dry	5	25	5	5	18	18	18	18	ug/g
Barium	ug/g dry	120	510	150	98	390	670	390	670	ug/g
Beryllium	ug/g dry	0.68	1.2	0.6	0.55	4	8	4	8	ug/g
Boron	ug/g dry	23	70	22	16	120	120	120	120	ug/g
Calcium	ug/g dry	83000	150000	70000	97000	NV	NV	NV	NV	ug/g
Cadmium	ug/g dry	3.4	20	3.4	1	1.2	1.9	1.2	1.9	ug/g
Chromium	ug/g dry	31	110	41	26	160	160	160	160	ug/g
Cobalt	ug/g dry	9.7	46	22	7	22	80	22	80	ug/g
Copper	ug/g dry	130	960	170	68	140	230	140	230	ug/g
Iron	ug/g dry	32000	100000	36000	24000	NV	NV	NV	NV	ug/g
Lead	ug/g dry	220	1100	230	130	120	120	120	120	ug/g
Magnesium	ug/g dry	11000	22000	11000	8600	NV	NV	NV	NV	ug/g
Manganese	ug/g dry	550	1200	540	470	NV	NV	NV	NV	ug/g
Molybdenum	ug/g dry	1	9	2.5	0.5	6.9	40	6.9	40	ug/g
Nickel	ug/g dry	52	280	100	32	100	270	100	270	ug/g
Potassium	ug/g dry	2700	3800	2400	2400	NV	NV	NV	NV	ug/g
Phosphorus	ug/g dry	650	130	700	700	NV	NV	NV	NV	ug/g
Selenium	ug/g dry	5	10	5	5	2.4	5.5	2.4	5.5	ug/g
Silver	ug/g dry	0.2	0.4	0.2	0.2	20	40	20	40	ug/g
Sodium	ug/g dry	450	800	400	400	NV	NV	NV	NV	ug/g
Strontium	ug/g dry	130	220	120	150	NV	NV	NV	NV	ug/g
Sulphur	ug/g dry	850	2000	1000	600	NV	NV	NV	NV	ug/g
Thallium	ug/g dry	10	20	10	10	1	3.3	1	3.3	ug/g
Tin	ug/g dry	18	110	15	15	NV	NV	NV	NV	ug/g
Titanium	ug/g dry	530	110	610	630	NV	NV	NV	NV	ug/g
Vanadium	ug/g dry	28	52	30	26	86	86	86	86	ug/g
Zinc	ug/g dry	790	7400	1200	480	340	340	340	340	ug/g
	exceeds Ministry generic soil criteria - Table 2									
	equals Ministry generic soil criteria - Table 2									
	lab detection limit was 5 ug/g									
	standard exceeded									
**	MOE Soil, Ground Water and Sediment Standard for course grained soil									