

The Essex-Windsor Solid Waste Authority

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Kingsville

Transfer Station No. 2

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2009 Annual Operations Report



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# Kingsville Transfer Station No. 2

## Operations Report for the Year 2009

### 1. Purpose

The Ministry of the Environment issued Provisional Certificate of Approval No. A011406 on August 24, 1993 to permit the operation of a waste transfer station on part of Lot 13, Concession 2, Eastern Division, in the former Township of Gosfield South, now the Town of Kingsville. Condition 27 of that Provisional Certificate requires the submission of an Annual Operations Report to the Ministry by March 31<sup>st</sup> of each year for the previous calendar year. The Ministry of the Environment also issued Provisional Certificate of Approval No. A620027 on October 31, 1997 to permit the operation of a Municipal Hazardous or Special Waste Depot as part of the waste transfer station operation. Condition 23 of that Provisional Certificate requires the submission of an Annual Report to the Ministry by March 31<sup>st</sup> of each year for the previous calendar year. This report is prepared in compliance with the reporting requirements of both Provisional Certificates.

### 2. Introduction

The Transfer Station and Municipal Hazardous or Special Waste Depot is owned and operated by the Essex-Windsor Solid Waste Authority. The name assigned to the overall operation is Essex-Windsor Transfer Station No. 2. The Transfer Station is located on Essex County Road 31, known as the Albuna Townline Road. The transfer station became operational on August 30, 1993 and the Municipal Hazardous or Special Waste Depot became operational April 1, 1998.

The service area of Essex-Windsor Transfer Station 2 is the whole of Essex-Windsor as part of the waste transfer system referred to in Condition 4.2 of the Environmental Assessment Act Approval for the Essex-Windsor Regional Landfill.

Waste received at the Transfer Station is deposited onto a concrete tipping floor inside of an enclosed building. It is then re-loaded, using a Caterpillar 938G Front End Loader, into transfer trucks under contract with Waste Management of Canada. The waste is then conveyed for disposal to the Essex-Windsor Regional Landfill operated under Provisional Certificate of Approval No. A011101.

### 3. Waste Disposal Activity

#### 3.1 Waste Quantities

A total of 19,419.75 tonnes of solid non-hazardous waste requiring disposal were received in 2009. This is a 0.4% decrease compared to the 19,505.86 tonnes received in 2008. The daily average waste quantity delivered to the Transfer Station was 64 tonnes per day,

considerably below the licensed capacity of 250 tonnes per day. The origin of the waste is listed in Table 1.

Table 1: 2005-2009 Waste Tonnage Comparison by Geographic Source

MUNICIPALITY	2009	2008	2007	2006	2005
Leamington	10,898.60	11,774.04	10,747.26	11,533.10	10,551.97
Chatham-Kent	936.24	769.98	542.98	523.52	373.69
Kingsville	5,956.90	5,653.29	5,168.61	3,987.16	2,172.49
Essex	458.14	516.01	426.34	412.36	241.46
Amherstburg	109.01	74.83	50.59	40.84	32.77
LaSalle	41.12	25.08	19.21	4.18	1.26
Windsor	170.61	86.37	71.76	42.61	23.45
Tecumseh	40.47	22.62	20.17	16.15	4.75
Lakeshore	808.66	583.64	689.44	586.61	451.55
<i>TOTAL TONNES</i>	<b>19,419.75</b>	<i>19,505.86</i>	<i>17,736.36</i>	<i>17,146.53</i>	<i>13,853.39</i>

### 3.2 Waste Types

In addition to the 19,419.75 tonnes of solid non-hazardous waste received at the Transfer Station in 2009, a total of 2,592.49 tonnes of “other wastes” including: compost; recyclables; white goods; refrigerants; scrap metal; and tires were received at the facility for diversion purposes. The tonnage and percentage of each type of waste is listed in Table 2.

Table 2: Waste Quantities

	2009		2008	
	Tonnes	Percent	Tonnes	Percent
Municipally Delivered Refuse	9,240.47	41.98%	9,560.24	43.52%
Municipally Del'd ICI Refuse	-	0.00%	15.77	0.07%
Municipal Del'd Clean Ups	20.46	0.09%	6.95	0.03%
Residentially Del'd Refuse	1,200.02	5.45%	1,079.30	4.91%
Res. Construction/Demolition	605.89	2.75%	653.60	2.98%
Residential Shingles	273.76	1.24%	247.67	1.13%
Charitable Organizations	134.30	0.61%	113.70	0.52%
IC&I Delivered Refuse	2,134.98	9.70%	2,630.93	11.98%
IC&I Del'd Construction/Demolition	2,120.94	9.64%	1,784.87	8.13%
IC&I Shingles	3,688.93	16.76%	3,412.83	15.54%
Residentially Del'd Recyclables	46.49	0.21%	42.00	0.19%
IC&I Mixed Recyclables	0.07	0.00%	1.55	0.01%
White Goods	7.12	0.03%	7.78	0.04%
Metal	82.57	0.38%	71.46	0.33%
Refrigerants	24.31	0.11%	14.28	0.07%
IC&I-OCC	1.29	0.01%	0.93	0.00%
Municipal Organics	1,386.01	6.30%	1,337.52	6.09%
Residential Organics	749.80	3.41%	596.99	2.72%
IC&I Organics	202.17	0.92%	335.55	1.53%
Pallets	4.48	0.02%	3.68	0.02%
Electronics Recycling	67.40	0.31%	26.22	0.12%
Tires	20.78	0.09%	21.72	0.10%
<b>Total Waste &amp; Recyclables:</b>	<b>22,012.24</b>		<b>21,965.54</b>	

### 3.3 Municipal Household or Special Wastes

A total of 60,435 litres of municipal household or special wastes were received at the facility in 2009 under Provisional Certificate of Approval No. A620027. The quantity of household and special waste received by material type is shown in Table 3.

Table 3: MHSW Quantities at Kingsville Transfer Station No. 2

Chemical Type	2008	2009
	Litres Kgs	Litres Kgs
Aerosols	1,700	2,100
Dry Cell Batteries	426	2,075
Fire Extinguishers	200	100
Inorganic Acids	200	100
Inorganic Bases	200	600
Inorganic Oxidizers	600	700
Adhesives	3,500	7,860
Paint – Alkyd	16,800	19,800
Paint – Latex	12,500	25,100
Pesticides	1,000	1,400
Pharmaceuticals	100	100
Propane	100	300
Oil Filters	200	200
<b>TOTAL LITRES:</b>	<b>37,526</b>	<b>60,435</b>

### 3.4 Waste Refusals

Throughout 2009, the public brought small quantities of banned or restricted waste into Transfer Station No. 2 within loads of solid non-hazardous waste. This included items such as tires, pallets, municipal household or special waste, white goods and yard waste. In all cases arrangements were made to have the material recycled or disposed of as per the Essex-Windsor Solid Waste Authority or the Ministry of the Environment requirements. If the material was brought in by a private waste hauler, the material was rejected and the hauler was required to dispose or recycle the material privately.

## 4. Transfer Station Operations

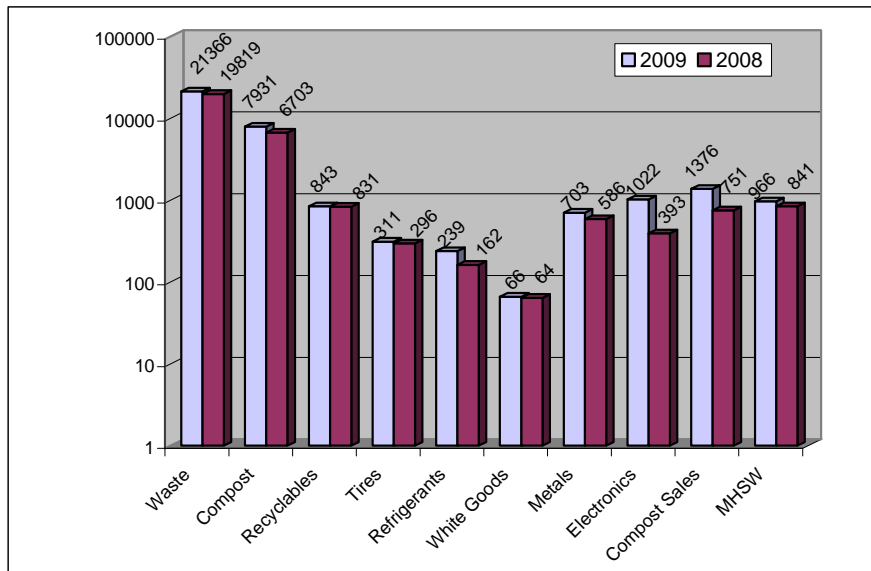
### 4.1 Accidents, Fires and Incidents

There were no accidents, fires or incidents to report for 2009.

### 4.2 Traffic

A total of 33,857 vehicles crossed the scale during 2009 (*higher than the 30,446 recorded for 2008*). Of the total, 21,366 vehicles hauled solid non-hazardous waste into the Transfer Station. There were 7,931 vehicles that brought in compost material, 966 brought municipal household and special wastes, 843 brought recyclables, 1,022 brought electronics, 239 brought in refrigerants, 66 brought white goods, 703 brought scrap metal, 311 vehicles brought in tires, and 1,376 vehicles entered the site to purchase screened compost.

Figure 1: Traffic Comparison



The solid non-hazardous waste was consolidated into 831 loads in 120-cubic yard trailers for haulage to the Essex-Windsor Regional Landfill.

#### 4.3 Operations

The Essex-Windsor Solid Waste Authority carried out the day to day maintenance of the facility. This included but is not limited to the cleaning and sweeping of roads, litter control, dust control and the maintenance of the transfer station, municipal household and special waste depot and scale house.

At a minimum, monthly road patrols of the Albuna Town Line from Hwy#3 to Concession 3 were carried out. On an as needed basis the internal site roads and the Albuna Town Line were flushed with the Authority flusher truck.

#### 4.4 Composting

In October 1990 the MOE issued an amendment to the CA #A011401 issued on December 2<sup>nd</sup>, 1985 allowing for the operation of an on site compost pad. Grass, leaves, tree trimmings and brush are restricted from disposal at the Essex-Windsor Regional Landfill Site. As a result several local municipalities have established separate collection systems for yard wastes. In 2008 a total of 2,342 tonnes of yard waste was delivered to Transfer Station No. 2. Of the total yard waste delivered 59% was municipal yard waste, 32% was residential, and 9% was ICI. On five occasions during the year Windsor Disposal Services and/or Orbit Excavating & Sanitation Services Ltd. was on site shredding the yard waste.

## 5. Compliance

The Essex-Windsor Solid Waste Authority submitted an application to the MOE to increase the storage capacity of waste on February 18<sup>th</sup>, 2005. On June 9<sup>th</sup>, 2006 the MOE approved an amendment to the original C of A allowing for an increase in the amount of waste that may be stored on the site at any one time to go from 25 tonnes to 100 tonnes. The reason for the amendment was to allow for greater flexibility in removing waste loads received late in the day.

**Ralph Reiser**  
Waste Disposal Manager

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**Eli Maodus**  
Acting General Manager

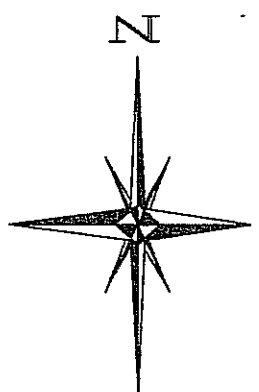
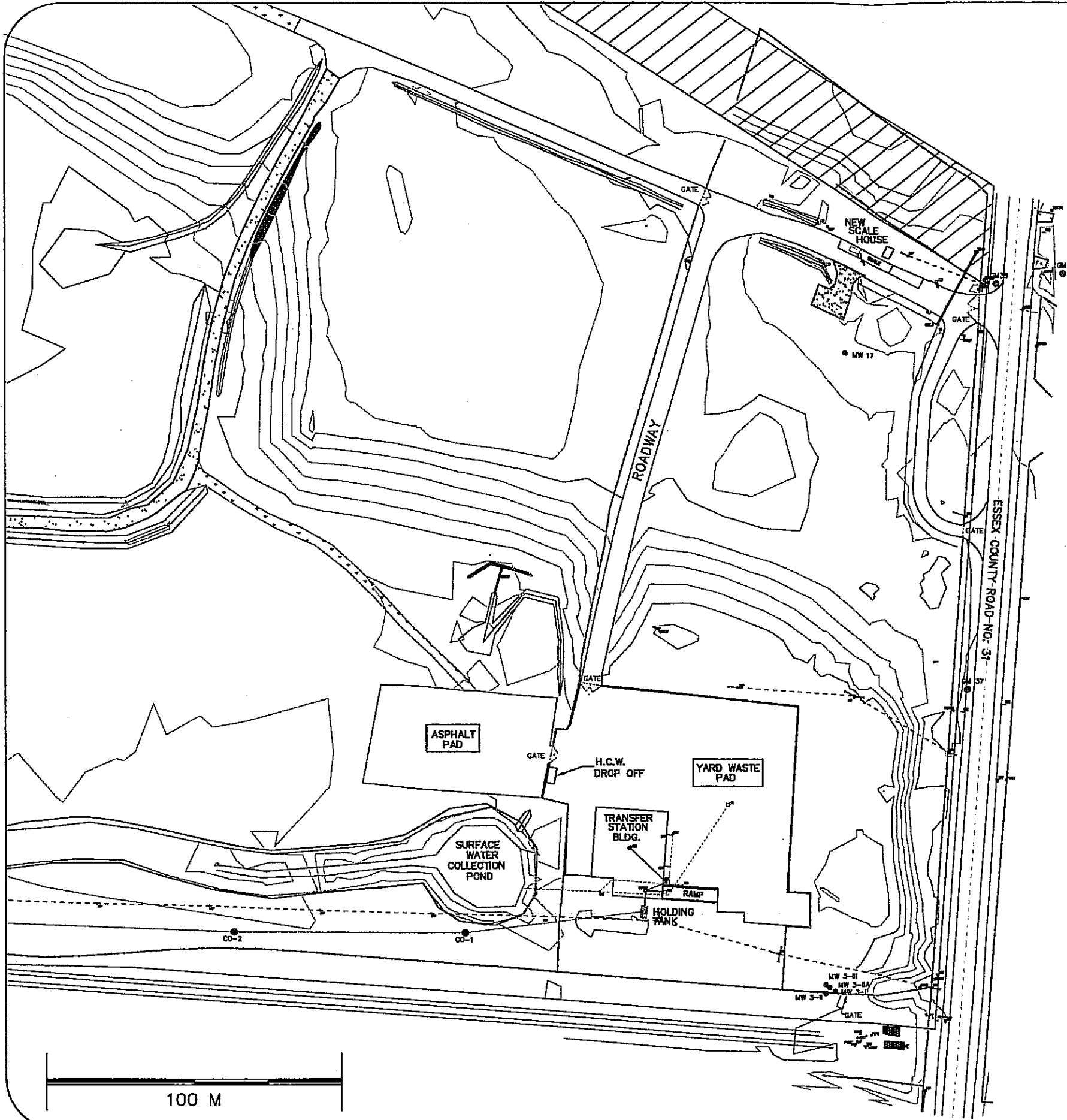
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*Report prepared by:*  
**Margaret Shires**, Administrative Assistant

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# Appendix A

## 2009 Operations Report Map



**ESSEX-WINDSOR SOLID WASTE AUTHORITY**  
 360 FAIRVIEW AVE. W., ESSEX, ONTARIO N8M 1Y6  
 (519) 776-6441 1-800-563-3377 FAX (519) 776-6370

1. CONTOURS ARE REFLECTIVE OF SITE CONDITIONS AS OF DECEMBER 2005. GENERATED FROM SURVEYS DONE 2002 TO 2005.

**KEY**

	CATCH BASIN		FENCE		BUFFER LANDS
	HYDRO POLE W/GUY		SWING GATE		CONTOURS
	TRAFFIC LIGHT		SLIDING GATE		ASPHALT ROADWAY
	MONITORS		SIGNS		GRAVEL ROADWAY
	WATER METER		GAS METER		COUNTY ROAD
	WATER VALVE		BUILDING		GRASS LANEWAY
	FIRE HYDRANT		BELL TELEPHONE		DIRT ACCESS ROAD
			YARD WASTE PAD COLL. SYS.		ROCKSWALE
			TRANSFER STATION COLL. SYS.		DITCH

**DRAWING RECORDS**

NO.	DATE	BY	REVISIONS	MAN	CAD
5					
4	JAN 10	AEBB	ISSUED FOR M.O.E. REVIEW		✓
3	JAN 09	AEBB	ISSUED FOR M.O.E. REVIEW		✓
2	JAN 08	AEBB	ISSUED FOR M.O.E. REVIEW		✓
1	JAN 07	AEBB	ISSUED FOR M.O.E. REVIEW		✓
0	JAN 06	AEBB	ISSUED FOR M.O.E. REVIEW		✓

**ESSEX - WINDSOR  
 SOLID WASTE AUTHORITY  
 TRANSFER STATION #2  
 2009 OPERATIONS REPORT MAP**

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DRAWN BY:  
 A.E.B.B.

AUTOCAD VER. 2004

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