

**APPENDIX E.3**  
**WASTE DISPOSAL RATES**



**Client:** Veolia ES Zion Landfill, Inc.

**Project:** Site 2 East Expansion

**Proj. #:** 122150

**Calculated By:** CMS **Date:** 1/2010

**Checked By:** PPK **Date:** 1/2010

**TITLE: WASTE DISPOSAL RATES**

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**Methodology**

The following steps were utilized to estimate per capita waste disposal rates for the Chicago metropolitan area and downstate counties. The metropolitan area is comprised of Cook County, DuPage County, Kane County, Lake County, McHenry County and Will County -- however, only Cook and Lake Counties and a portion of McHenry County are within the proposed service area. The methodology utilizes landfill disposal data during the period 1996-2008, and represents the most current information on disposal rates.

**Step 1.** Landfills that are known to accept waste from the metropolitan area were identified through the following process:

- A. Illinois landfills which are currently utilized to dispose of waste from the metropolitan area were identified through several methods. First, landfills located within the six-county metropolitan area were assumed to accept waste from the metropolitan area. Second, a number of transfer stations located within the metropolitan area were surveyed to determine which landfills they utilize (including, potentially, landfills located outside of the metropolitan area). Third, government agencies that have negotiated long-term contracts for transfer and disposal capacity were contacted to determine which landfills they utilize.
  - i. Illinois landfills located within the six-county metropolitan area were identified from the IEPA annual report, *Nonhazardous Solid Waste Management and Landfill Capacity in Illinois*, as well as from landfill capacity certification forms which all Illinois landfills are required to submit to the IEPA on an annual basis.
  - ii. A survey of Illinois transfer stations was performed to determine which landfills they utilized. This survey was conducted by reviewing IEPA inspection reports for the transfer stations, or by contacting the operators of the transfer stations directly. The results of the transfer station survey are presented in Table E.3-1.
  - iii. Government agencies that have negotiated long-term contracts for transfer and disposal capacity were contacted to determine which landfills they utilize. The results of this research are presented in Table E.3-2.
- B. Indiana landfills that currently accept waste from the Chicago metropolitan area were identified by consulting an annual report published by the Indiana Department of Environmental Management, the *Summary of Indiana Solid Waste Facility Data*. Indiana landfills are required to report waste disposal quantities to IDEM based on the county and state of origin of the waste.
- C. Michigan landfills that currently accept waste from the Chicago metropolitan area were identified by consulting an annual report published by the Michigan Department of Environmental Quality, the *Report of Solid Waste Landfilled in Michigan*.

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D. Wisconsin landfills that currently accept waste from the Chicago metropolitan area were identified by consulting an annual landfill capacity report published by the Wisconsin Department of Natural Resources, the *Wisconsin Solid Waste Landfill Tonnage/Capacity Report*.<sup>1</sup>

Utilizing this methodology, a total of 46 landfills (and one incinerator) in Illinois, Indiana, Michigan and Wisconsin were identified as accepting waste from the Chicago metropolitan area over the period 1996 to 2008 (refer to Figure E.3-1). During this period, some landfills closed while others began operating; therefore, not all facilities were operating during each year of the period.

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<sup>1</sup>

Note that only Indiana landfills are required to report *both* the county and state of origin for wastes received. Landfills in Illinois, Michigan and Wisconsin are only required to report the state of origin of wastes received. Michigan and Wisconsin landfills that reported receiving waste from Illinois were assumed to have received that waste from the Chicago metropolitan area due to their proximity to the metro area.

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TABLE E.3-1. SURVEY OF TRANSFER STATIONS (LANDFILLS HISTORICALLY UTILIZED)

Transfer Station	Landfills Utilized
Loop-64 <sup>th</sup> Street	Livingston, County Line, Lee County, Newton County.
ARC	Kestrel Hawk, Orchard Hills, Mallard Ridge, Newton County, Woodland.
Calumet	Livingston, County Line, Newton County.
Clearing	Livingston, Laraway, Liberty.
DuKane	Lee County.
Greenwood	Winnebago
Heartland	Livingston, Lee County, Forest Lawn, Kestrel Hawk, Winnebago, Rochelle.
Homewood Disposal	Livingston, Newton County, Forest Lawn.
Loop-Laflin	Livingston, County Line, Newton County.
Liberty	Livingston, Envirotech, Streator.
Midtown	Livingston, County Line, Newton County.
Planet Recovery	Livingston, County Line, Newton County.
Rolling Meadows	Orchard Hills, Lee County.
Shred-All	Livingston, Newton County, County Line.
Star Disposal	Livingston, Envirotech, Newton County, Forest Lawn.
Veolia - Batavia	Orchard Hills.
Veolia - Evanston	Zion, Orchard Hills.
Veolia - Melrose Park	Livingston, Orchard Hills, Lee County.
Veolia - Northbrook	Zion.
WM-Elburn	Lee County, Orchard Hills, Prairie Hill, Settler's Hill.
Source:	
1.	Review of IEPA transfer station inspection reports and telephone surveys.



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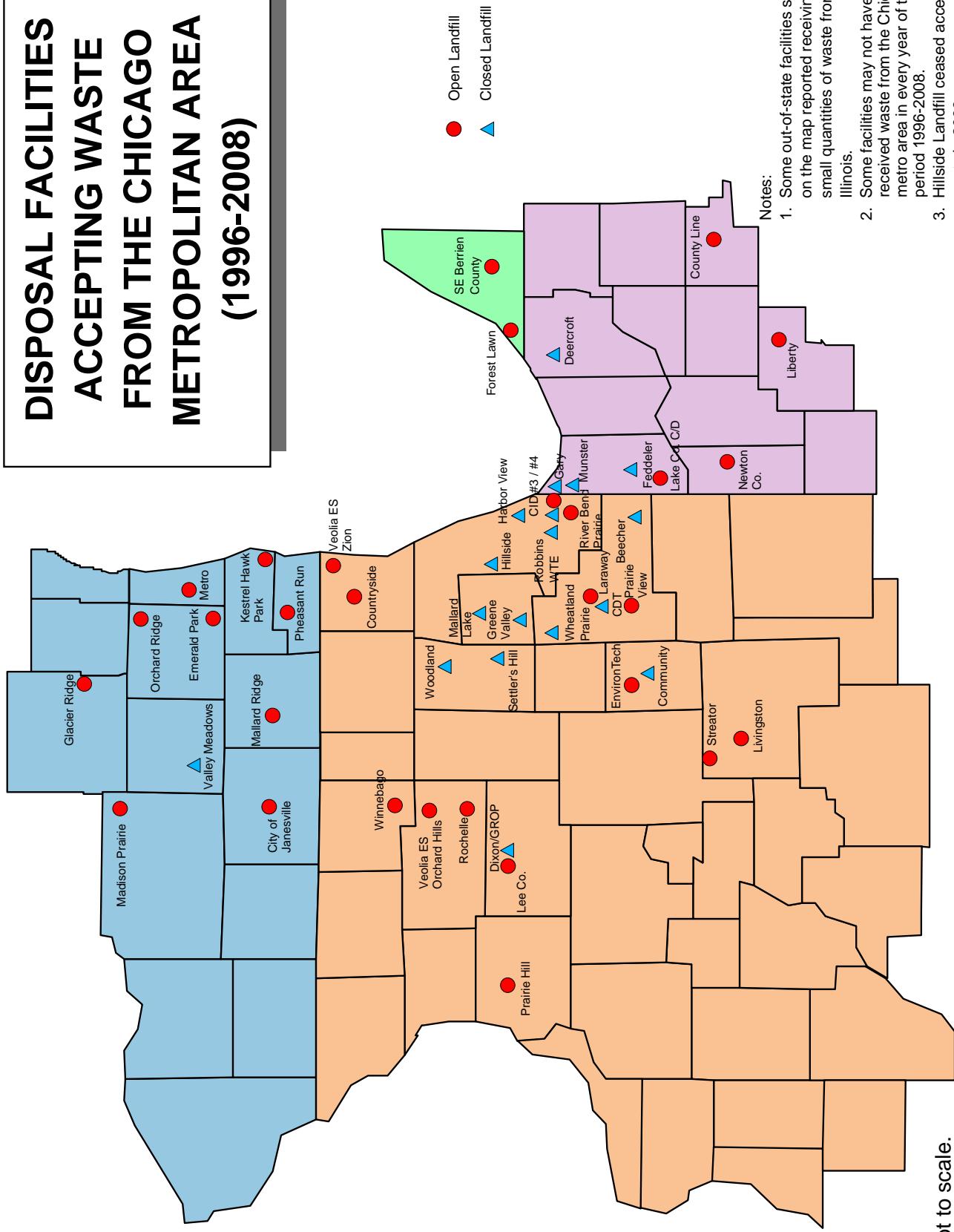
**TABLE E.3-2. LANDFILLS UTILIZED BY PUBLIC AGENCIES CONTRACTING FOR DISPOSAL CAPACITY**

Jurisdiction	County	Transfer Stations Utilized	Landfills Utilized
City of Chicago	Cook	34th Street MRRF, Medill MRRF, Northwest MRRF	Livingston Landfill
SWANCC	Cook	Wheeling Township TS	Winnebago Landfill
WCCSWA	Cook	Liberty-McCook TS, Northlake TS	Livingston Landfill, Lee County Landfill

## Notes:

1. SWANCC = Solid Waste Agency of Northern Cook County. WCCSWA = West Cook County Solid Waste Agency.
2. Based on phone interviews of representatives of each jurisdiction.

# DISPOSAL FACILITIES ACCEPTING WASTE FROM THE CHICAGO METROPOLITAN AREA (1996-2008)



**FIGURE E.3-1**



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Step 2. Annual quantities of waste disposed during the period 1996 - 2008 were obtained for each of the 47 facilities (46 landfills and one incinerator) identified in Step 1 from IEPA, IDEM, MDEQ and WDNR. For the Illinois landfills, the quantity of waste received at each facility from the Chicago metropolitan area was estimated using the following equation:

$$(\text{Waste from Metropolitan Area}) = (\text{Total Landfill Throughput}^2) - (\text{Out-of-State Waste})$$

For the Indiana landfills, the quantity of waste received at each facility from the Chicago metropolitan area was obtained directly from IDEM reports. As was noted previously, Indiana landfills must report to IDEM both the state and county of origin of waste received.

For the Michigan and Wisconsin landfills, the quantity of waste received at each facility from the Chicago metropolitan area was estimated from MDEQ and WDNR reports. Michigan and Wisconsin require landfills to report the state of origin but, unlike Indiana, do not require the county of origin to be reported. Due to their proximity to the Chicago area, it was conservatively assumed that all Illinois waste received at the Michigan and Wisconsin landfills originated from the Chicago metropolitan area.

Disposal quantities are summarized in Table E.3-3. Note that Indiana and Wisconsin landfills report disposal quantities in tons. Illinois and Michigan landfills report disposal quantities in cubic yards. For the Illinois landfills, cubic yard data was converted to tonnage data using facility-specific densities that the landfills report to IEPA. For the Michigan landfills, cubic yard data was converted to tonnage data using an industry conversion factor of 3.3 cubic yards per ton.

Step 3. Disposal quantities (after adjustment for imports in the case of Illinois landfills) were then adjusted to account for special waste. This was done to provide per capita disposal rates for municipal waste and for total waste (the latter category includes special waste). Indiana, Michigan and Wisconsin landfills all track special waste quantities separately from municipal solid waste quantities<sup>3</sup>. Therefore, no adjustments were required.

The annual Illinois landfill report documents the total quantity of waste received by each landfill, but does not distinguish between special waste and municipal solid waste. Thus, the disposal quantities reported in Table E.3-3 for Illinois landfills have to be reduced to account for special waste in order to compute municipal waste.

Each load of special waste in Illinois must be tracked by a manifest from the point of generation to the point of disposal. The manifests must then be submitted to the IEPA. A computer database file of all the special waste manifests was obtained from the IEPA for the years 2000 - 2007. A search of the database indicated that, on average, special waste accounted for approximately

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<sup>2</sup> For landfills located outside the Chicago metropolitan area, Total Landfill Throughput includes waste from the host county -- an adjustment for this is made in Step 4.

<sup>3</sup> Non-hazardous special waste includes industrial process waste and pollution control waste (such as contaminated soil from a remediation project). Municipal solid waste includes residential waste, commercial waste, light industrial waste, and construction and demolition debris.



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4 percent of the total volume of waste received annually by the Illinois landfills presented in Table E.3-3.

To convert this value to a tonnage figure, the reported densities of waste received at the CID RDF #3 Landfill, the CID RDF #4 Landfill, and the Laraway RDF Landfill were averaged (refer to Table E.3-4). These facilities handle high volumes of special waste relative to municipal solid waste. The resulting average density for special waste was computed to be approximately 1,600 pounds per cubic yard (special waste typically has a higher density than municipal solid waste). Using this estimated density value, the reported volume of special waste corresponds to an average of about 9 percent of the total tonnage of waste accepted by the landfills annually. Accordingly, the total tonnage of waste for the Illinois landfills in Table E.3-3 was reduced by 9 percent to account for special waste (actual special waste tonnages were used for years 2000 to 2007).

**Step 4.** The estimated total quantity of waste disposed by the Chicago metropolitan area (Step 1), after adjusting for out-of-state imports (Step 2), was then compared with population estimates to calculate a per capita total waste disposal rate (in pounds per capita per day). A municipal waste disposal rate (in pounds per capita per day) was also calculated following the same methodology, utilizing the adjustment for special waste (Step 3).

As was indicated earlier, waste from the Chicago metropolitan area is disposed at Illinois landfills located both within the metropolitan area and outside the metropolitan area. It is judged that the vast majority of waste disposed at landfills within the six-county metro area originates from the six counties. This is because landfill tipping fees are typically higher in the metropolitan area, and hence there would be less incentive for more rural counties to transport their waste to metro area landfills.

Illinois landfills located outside the metropolitan area receive waste from both the metro area and from the rural "host" counties in which they are located. For the facilities identified in Table E.3-3, these host counties include Grundy County (Community Landfill and EnvironTech Landfill), Lee County (Lee County Landfill and Dixon/GROP Landfill; the latter facility is now closed), Livingston County (Livingston Landfill and Streator Area Landfill), and Ogle County (Orchard Hills Landfill). Beginning in the year 2006, the host counties also include Whiteside County (Prairie Hill RDF) and Winnebago County (Winnebago Landfill) because the transfer station survey indicated greater use of the Prairie Hill RDF and Winnebago Landfill (as well as the Rochelle Municipal Landfill in Ogle County) by Chicago area transfer stations. The population of the host counties was added to the population of the six-county metro area to derive the per capita disposal rates.<sup>4</sup> Population projections for the period 1996 - 2008 are provided in Table E.3-5.

<sup>4</sup>

It is possible that these landfills also receive waste from rural counties that neighbor the "host" counties -- however, these quantities are likely to be relatively small.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2008								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	0	0	0	0	0	0
CID RDF #4	Cook	IL	2,000	12,000	12,000	0	0	12,000
Community Landfill	Grundy	IL	0	0	0	0	0	0
Countyside RDF	Lake	IL	500	1,761,647	440,412	0	0	440,412
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grundy	IL	770	844,543	325,149	2,796	1,076	324,073
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	30,046	9,014	0	0	9,014
Laraway RDF	Will	IL	3,400	76,730	130,441	0	0	130,441
Lee County Landfill	Lee	IL	600	3,695,096	1,108,529	19,717	5,915	1,102,614
Livingston Landfill	Livingston	IL	656	3,255,723	1,067,877	0	0	1,067,877
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	519	6,878,666	1,785,014	949	246	1,784,768
Prairie Hill RDF	Whiteside	IL	551	1,405,844	387,310	131,054	36,105	351,205
Prairie View RDF	Will	IL	504	2,984,678	752,139	0	0	752,139
River Bend Prairie	Cook	IL	784	1,226,000	480,592	28,790	11,286	469,306
Rochelle Landfill	Ogle	IL	1,120	364,000	203,840	0	0	203,840
Settler's Hill RDF	Kane	IL	0	0	0	0	0	0
Streetcar Area Landfill	Livingston	IL	600	0	0	0	0	0
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0
Winnebago Landfill	Winnebago	IL	509	2,654,046	675,455	0	0	675,455
Woodland RDF	Kane	IL	0	0	0	0	0	0
Zion Landfill	Lake	IL	578	2,167,940	626,535	43,717	12,634	613,901
<b>Subtotal</b>			<b>585</b>	<b>27,356,959</b>	<b>8,004,307</b>	<b>227,023</b>	<b>67,262</b>	<b>7,937,045</b>

Less, Special Waste							714,334
Plus, Robbins WTE	Cook	IL	0	0	0	0	0
<b>Total MSW</b>							<b>7,222,711</b>

2008								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
County Line Landfill	Fulton	IN			178,885		58,232	58,232
Munster Landfill	Lake	IN			0		0	0
Feddele C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			26,786		15,398	15,398
Deercroft RDF	LaPorte	IN			0		0	0
Newton County Landfill	Newton	IN			2,926,489		1,838,200	1,838,200
Liberty Landfill	White	IN			643,978		330,169	330,169
<b>Subtotal</b>					<b>3,776,138</b>		<b>2,241,999</b>	<b>2,241,999</b>

Less, Special Waste							63,073
<b>Total MSW</b>							<b>2,178,926</b>

2008								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Forest Lawn Landfill	Berrien	MI		2,191,731	664,161	859,072	260,325	260,325
SE Berrien County	Berrien	MI		921,821	279,340	0	0	0
<b>Subtotal</b>				<b>3,113,552</b>	<b>943,501</b>	<b>859,072</b>	<b>260,325</b>	<b>260,325</b>

2008								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Madison Prairie	Dane	WI			81,548		16	16
Glacier Ridge	Dodge	WI			372,337		17,275	17,275
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			794,235		608,691	608,691
Metro RDF	Milwaukee	WI			492,622		21	21
Kestrel Hawk	Racine	WI			171,135		46,013	46,013
City of Janesville - Rock Co. LF	Rock	WI			311,617		31,783	31,783
Mallard Ridge	Walworth	WI			639,974		389,718	389,718
Emerald Park	Waukesha	WI			644,144		0	0
Orchard Ridge RDF	Waukesha	WI			1,048,179		18	18
<b>Subtotal</b>				<b>4,555,791</b>		<b>1,093,535</b>	<b>1,093,535</b>	
Less, Special Waste							16	
<b>Total MSW</b>							<b>1,093,519</b>	
Total Waste - All States							11,532,904	
Total MSW - All States							10,755,481	
Population (see Table E.3-5)							9,290,166	
Waste Disposal (pcd) - Total Waste							6.8	
Waste Disposal (pcd) - MSW Only							6.3	

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2007							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)
Beecher Development	Will	IL	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0
CID RDF #3	Cook	IL	0	0	0	0	0
CID RDF #4	Cook	IL	2,000	12,207	12,207	11,649	11,649
Community Landfill	Grundy	IL	0	0	0	0	0
Countyside RDF	Lake	IL	500	1,751,478	437,870	0	0
Dixon/GROP #2	Lee	IL	0	0	0	0	0
Envirotech	Grundy	IL	770	881,449	339,358	4,408	1,697
Greene Valley	DuPage	IL	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0
Hillside	Cook	IL	600	3,963,321	1,188,996	0	0
Laraway RDF	Will	IL	3,400	48,661	82,724	0	82,724
Lee County Landfill	Lee	IL	600	2,506,750	752,025	156	47
Livingston Landfill	Livingston	IL	656	4,591,439	1,505,992	0	0
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	524	6,296,274	1,648,994	3,293	862
Prairie Hill RDF	Whiteside	IL	541	1,315,685	355,893	107,866	29,178
Prairie View RDF	Will	IL	587	2,918,871	856,689	0	856,689
River Bend Prairie	Cook	IL	895	966,409	432,468	167	75
Rochelle Landfill	Ogle	IL	1,120	344,813	193,095	0	0
Settler's Hill RDF	Kane	IL	0	0	0	0	0
Streator Area Landfill	Livingston	IL	600	0	0	0	0
Wheatland Prairie RDF	Will	IL	0	0	0	0	0
Winnebago Landfill	Winnebago	IL	438	3,348,184	733,252	0	0
Woodland RDF	Kane	IL	0	0	0	0	0
Zion Landfill	Lake	IL	627	2,582,253	809,536	40,645	12,742
<b>Subtotal</b>			593	31,527,793	9,349,099	168,184	56,250
							9,292,849

Less, Special Waste							559,170
Plus, Robbins WTE	Cook	IL	0	0	0	0	0

Total MSW 8,733,679

2007							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
County Line Landfill	Fulton	IN		214,577		106,339	106,339
Munster Landfill	Lake	IN		0	0	0	0
Feddeler C/D Landfill	Lake	IN		0	0	0	0
Gary Sanitary Landfill	Lake	IN		0	0	0	0
Lake County C/D Site	Lake	IN		54,972		10,555	10,555
Deercroft RDF	LaPorte	IN		0	0	0	0
Newton County Landfill	Newton	IN		2,692,455		1,465,200	1,465,200
Liberty Landfill	White	IN		721,817		421,937	421,937
<b>Subtotal</b>				3,683,821		2,004,031	2,004,031

Less, Special Waste							113,633
Total MSW							1,890,398

2007							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Forest Lawn Landfill	Berrien	MI	2,102,367	637,081	561,859	170,260	170,260
SE Berrien County	Berrien	MI	855,135	259,132	5,562	1,685	1,685
<b>Subtotal</b>			855,135	896,213	567,421	171,945	171,945

2007							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Madison Prairie	Dane	WI		117,022		0	0
Glacier Ridge	Dodge	WI		326,634		15,855	15,855
Superior Valley Meadows	Jefferson	WI		0	0	0	0
Pheasant Run RDF	Kenosha	WI		951,667		766,801	766,801
Metro RDF	Milwaukee	WI		500,708		6	6
Kestrel Hawk	Racine	WI		187,696		48,706	48,706
City of Janesville - Rock Co. LF	Rock	WI		310,622		29,334	29,334
Mallard Ridge	Walworth	WI		650,050		399,699	399,699
Emerald Park	Waukesha	WI		726,196		0	0
Orchard Ridge RDF	Waukesha	WI		1,074,810		7	7
<b>Subtotal</b>			4,845,405	1,260,408		1,260,408	1,260,408
Less, Special Waste							0
Total MSW							1,260,408
Total Waste - All States							12,729,233
Total MSW - All States							12,056,430
Population (see Table E.3-5)							9,203,286
Waste Disposal (pcd) - Total Waste							7.6
Waste Disposal (pcd) - MSW Only							7.2

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2006							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)
Beecher Development	Will	IL	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0
CID RDF #3	Cook	IL	2,000	1,091	1,091	0	0
CID RDF #4	Cook	IL	2,000	972	972	90	90
Community Landfill	Grundy	IL	0	0	0	0	0
Countryside RDF	Lake	IL	500	1,559,997	389,999	0	0
Dixon/GROP #2	Lee	IL	0	0	0	0	0
Envirotech	Grundy	IL	770	1,123,943	432,718	0	0
Greene Valley	DuPage	IL	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0
Hillside	Cook	IL	600	574,965	172,490	0	0
Laraway RDF	Will	IL	2,000	112	112	0	0
Lee County Landfill	Lee	IL	600	3,062,370	918,711	287	86
Livingston Landfill	Livingston	IL	656	6,145,905	2,015,857	0	0
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	540	6,567,694	1,773,934	244	66
Prairie Hill RDF	Whiteside	IL	536	1,014,600	271,913	92,428	24,771
Prairie View RDF	Will	IL	559	2,462,307	688,215	0	0
River Bend Prairie	Cook	IL	986	720,267	355,092	221	109
Rochelle Landfill	Ogle	IL	1,120	445,000	249,200	0	0
Settler's Hill RDF	Kane	IL	629	3,336,576	1,049,353	0	0
Streator Area Landfill	Livingston	IL	600	0	0	0	0
Wheatland Prairie RDF	Will	IL	0	0	0	0	0
Winnebago Landfill	Winnebago	IL	438	2,630,580	576,097	0	0
Woodland RDF	Kane	IL	0	0	0	0	0
Zion Landfill	Lake	IL	686	2,579,859	884,892	59,289	20,336
<b>Subtotal</b>			<b>607</b>	<b>32,226,238</b>	<b>9,780,646</b>	<b>152,558</b>	<b>45,458</b>
<b>Less, Special Waste</b>							<b>892,252</b>
<b>Plus, Robbins WTE</b>	Cook	IL	0	0	0	0	0
<b>Total MSW</b>							<b>8,842,936</b>

2006							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
County Line Landfill	Fulton	IN	665,594			511,031	511,031
Munster Landfill	Lake	IN		0	0	0	0
Feddeler C/D Landfill	Lake	IN		0	0	0	0
Gary Sanitary Landfill	Lake	IN		0	0	0	0
Lake County C/D Site	Lake	IN		66,547	42,180	42,180	
Deercroft RDF	LaPorte	IN		0	0	0	0
Newton County Landfill	Newton	IN		2,604,061	1,313,549	1,313,549	
Liberty Landfill	White	IN		562,685	278,470	278,470	
<b>Subtotal</b>				<b>3,898,887</b>		<b>2,145,230</b>	
<b>Less, Special Waste</b>							<b>94,370</b>
<b>Total MSW</b>							<b>2,050,860</b>

2006							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Forest Lawn Landfill	Berrien	MI	4,063,461	1,231,352	1,588,424	481,341	481,341
SE Berrien County	Berrien	MI	724,376	219,508	0	0	0
<b>Subtotal</b>				<b>4,787,837</b>	<b>1,450,860</b>	<b>1,588,424</b>	<b>481,341</b>

2006							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Madison Prairie	Dane	WI		149,279		0	0
Glacier Ridge	Dodge	WI		275,663		11,503	11,503
Superior Valley Meadows	Jefferson	WI		0	0	0	0
Pheasant Run RDF	Kenosha	WI		1,033,438		838,080	838,080
Metro RDF	Milwaukee	WI		540,890	3,796	3,796	
Kestrel Hawk	Racine	WI		298,319	135,457	135,457	
City of Janesville - Rock Co. LF	Rock	WI		225,340	23,893	23,893	
Mallard Ridge	Walworth	WI		542,344	209,955	209,955	
Émerald Park	Waukesha	WI		890,257	0	0	0
Orchard Ridge RDF	Waukesha	WI		1,227,189	0	0	0
<b>Subtotal</b>				<b>5,182,719</b>		<b>1,222,684</b>	
<b>Less, Special Waste</b>							<b>0</b>
<b>Total MSW</b>							<b>1,222,684</b>

Total Waste - All States 13,584,443

Total MSW - All States 12,597,821

Population (see Table E.3-5) 9,116,400

Waste Disposal (pcd) - Total Waste 8.2

Waste Disposal (pcd) - MSW Only 7.6

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.

2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.

3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2005							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)
Beecher Development	Will	IL	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0
CID RDF #3	Cook	IL	2,000	99,808	99,808	1,243	1,243 98,565
CID RDF #4	Cook	IL	2,000	24,241	24,241	5,110	5,110 19,131
Community Landfill	Grundy	IL	0	0	0	0	0
Countryside RDF	Lake	IL	600	1,742,516	522,755	0	0 522,755
Dixon/GROP #2	Lee	IL	0	0	0	0	0
Envirotech	Grundy	IL	770	1,260,446	485,272	0	0 485,272
Greene Valley	DuPage	IL	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0
Hillside	Cook	IL	600	308,313	92,494	0	0 92,494
Lanaway RDF	Will	IL	2,000	195	195	0	0 195
Lee County Landfill	Lee	IL	600	4,044,660	1,213,398	141	42 1,213,356
Livingston Landfill	Livingston	IL	656	6,667,994	2,187,102	0	0 2,187,102
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	484	5,097,255	1,232,516	55	13 1,232,503
Prairie View RDF	Will	IL	487	1,876,777	456,995	0	0 456,995
River Bend Prairie	Cook	IL	1,055	737,276	388,913	585	309 388,604
Settler's Hill RDF	Kane	IL	629	2,485,345	781,641	0	0 781,641
Streator Area Landfill	Livingston	IL	600	67,663	20,299	53	16 20,283
Wheatland Prairie RDF	Will	IL	0	0	0	0	0
Woodland RDF	Kane	IL	0	0	0	0	0
Zion Landfill	Lake	IL	742	2,805,300	1,040,766	75,864	28,146 1,012,620
<b>Subtotal</b>			<b>628</b>	<b>27,217,789</b>	<b>8,546,395</b>	<b>83,051</b>	<b>34,879 8,511,516</b>

Less, Special Waste

Plus, Robbins WTE

Total MSW

7,450,253

2005							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
County Line Landfill	Fulton	IN			1,200,430		1,092,741 1,092,741
Munster Landfill	Lake	IN			0		0
Feddele C/D Landfill	Lake	IN			0		0
Gary Sanitary Landfill	Lake	IN			0		0
Lake County C/D Site	Lake	IN			199,048		165,950 165,950
Deercroft RDF	LaPorte	IN			0		0
Newton County Landfill	Newton	IN			2,145,175		1,090,179 1,090,179
Liberty Landfill	White	IN			577,613		252,630 252,630
<b>Subtotal</b>					<b>4,122,266</b>		<b>2,601,500 2,601,500</b>

Less, Special Waste

Total MSW

80,449

2,521,051

2005							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Forest Lawn Landfill	Berrien	MI		3,712,950	1,125,136	1,249,612	378,670 378,670
SE Berrien County	Berrien	MI		689,221	208,855	2	1 1
<b>Subtotal</b>				<b>4,402,171</b>	<b>1,333,991</b>	<b>1,249,614</b>	<b>378,671 378,671</b>

2005							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Madison Prairie	Dane	WI			170,650		2 2
Glacier Ridge	Dodge	WI			320,825		14,236 14,236
Superior Valley Meadows	Jefferson	WI			0		0
Pheasant Run RDF	Kenosha	WI			1,154,006		970,742 970,742
Metro RDF	Milwaukee	WI			617,974		1,016 1,016
Kestrel Hawk	Racine	WI			439,427		357,971 357,971
City of Janesville - Rock Co. LF	Rock	WI			205,206		16,961 16,961
Mallard Ridge	Walworth	WI			337,970		51,104 51,104
Emerald Park	Waukesha	WI			872,487		0 0
Orchard Ridge RDF	Waukesha	WI			1,200,920		6 6
<b>Subtotal</b>				<b>5,319,465</b>		<b>1,412,038</b>	<b>1,412,038</b>

Less, Special Waste

2

Total MSW

1,412,036

Total Waste - All States

12,903,725

Total MSW - All States

11,762,011

Population (see Table E.3-5)

8,677,461

Waste Disposal (pcd) - Total Waste

8.1

Waste Disposal (pcd) - MSW Only

7.4

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.

2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.

3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2004							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)
Beecher Development	Will	IL	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0
CID RDF #3	Cook	IL	2,400	303,857	364,628	6,296	7,555
CID RDF #4	Cook	IL	2,400	133,232	159,878	2,183	2,620
Community Landfill	Grundy	IL	0	0	0	0	0
Countyside RDF	Lake	IL	600	1,881,489	564,447	0	0
Dixon/GROP #2	Lee	IL	0	0	0	0	0
EnvironTech	Grundy	IL	811	1,147,644	465,370	0	0
Greene Valley	DuPage	IL	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0
Hillside	Cook	IL	600	359,255	107,777	0	0
Laraway RDF	Will	IL	2,400	2,629	3,155	0	3,155
Lee County Landfill	Lee	IL	600	4,025,263	1,207,579	15,812	4,744
Livingston Landfill	Livingston	IL	656	7,547,607	2,475,615	0	0
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	475	4,721,672	1,121,161	277	68
Prairie View RDF	Will	IL	436	1,885,665	411,075	0	0
River Bend Prairie	Cook	IL	1,031	718,530	369,371	2,630	1,356
Settler's Hill RDF	Kane	IL	592	2,461,334	728,555	0	0
Streator Area Landfill	Livingston	IL	600	554,032	166,210	2,644	793
Wheatland Prairie RDF	Will	IL	0	0	0	0	0
Woodland RDF	Kane	IL	0	0	0	0	0
Zion Landfill	Lake	IL	643	2,593,587	833,838	81,528	26,211
Subtotal			634	28,333,796	8,978,659	111,370	43,345
Less, Special Waste							869,993
Plus, Robbins WTE	Cook	IL	0	0	0	0	0
Total MSW							8,065,321

2004							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
County Line Landfill	Fulton	IN			712,180	605,664	605,664
Munster Landfill	Lake	IN			73,313	17,347	17,347
Feddeler C/D Landfill	Lake	IN			0	0	0
Gary Sanitary Landfill	Lake	IN			0	0	0
Lake County C/D Site	Lake	IN			270,807	223,521	223,521
Deercroft RDF	LaPorte	IN			0	0	0
Newton County Landfill	Newton	IN			1,685,838	952,734	952,734
Liberty Landfill	White	IN			583,737	291,005	291,005
Subtotal					3,325,875	2,090,271	2,090,271
Less, Special Waste							93,662
Total MSW							1,996,609

2004							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Forest Lawn Landfill	Berrien	MI		4,029,803	1,221,152	1,768,592	535,937
SE Berrien County	Berrien	MI		651,732	197,495	55	17
Subtotal				4,681,535	1,418,647	1,768,647	535,954

2004							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Madison Prairie	Dane	WI			218,686	28	28
Glacier Ridge	Dodge	WI			308,934	17,511	17,511
Superior Valley Meadows	Jefferson	WI			0	0	0
Pheasant Run RDF	Kenosha	WI			1,168,236	955,813	955,813
Metro RDF	Milwaukee	WI			890,133	27,544	27,544
Kestrel Hawk	Racine	WI			576,742	344,666	344,666
City of Janesville - Rock Co. LF	Rock	WI			155,554	16,617	16,617
Mallard Ridge	Walworth	WI			345,908	45,408	45,408
Emerald Park	Waukesha	WI			639,921	0	0
Orchard Ridge RDF	Waukesha	WI			883,997	3	3
Subtotal					5,188,111	1,407,590	1,407,590

Less, Special Waste						28	
Total MSW						1,407,562	
Total Waste - All States						12,969,129	
Total MSW - All States						12,005,446	

Population (see Table E.3-5) 8,593,172

Waste Disposal (pcd) - Total Waste 8.3  
Waste Disposal (pcd) - MSW Only 7.7

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2003							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)
Beecher Development	Will	IL	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0
CID RDF #3	Cook	IL	985	301,618	148,547	1,396	688
CID RDF #4	Cook	IL	1,842	78,638	72,426	2,286	2,105
Community Landfill	Grundy	IL	600	0	0	0	0
Countryside RDF	Lake	IL	600	1,796,279	538,884	0	0
Dixon/GROP #2	Lee	IL	0	0	0	0	0
EnvironTech	Grundy	IL	730	1,346,988	491,651	0	0
Greene Valley	DuPage	IL	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0
Hillside	Cook	IL	600	387,268	116,180	0	0
Laraway RDF	Will	IL	1,980	19,688	19,491	0	19,491
Lee County Landfill	Lee	IL	600	4,337,507	1,301,252	60,908	18,273
Livingston Landfill	Livingston	IL	656	10,550,336	3,460,510	0	3,460,510
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	426	4,928,362	1,049,741	3,294	702
River Bend Prairie	Cook	IL	722	663,684	239,590	28,190	10,176
Settler's Hill RDF	Kane	IL	495	4,766,833	1,179,791	0	0
Streator Area Landfill	Livingston	IL	600	369,803	110,941	5,394	1,618
Wheatland Prairie RDF	Will	IL	0	0	0	0	0
Woodland RDF	Kane	IL	0	0	0	0	0
Zion Landfill	Lake	IL	590	2,661,210	785,057	84,000	24,780
<b>Subtotal</b>			<b>591</b>	<b>32,208,212</b>	<b>9,514,061</b>	<b>185,469</b>	<b>58,342</b>
<b>Less, Special Waste</b>							<b>864,307</b>
<b>Plus, Robbins WTE</b>	Cook	IL	0	0	0	0	0
<b>Total MSW</b>							<b>8,591,412</b>

2003							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
County Line Landfill	Fulton	IN		303,978		104,739	104,739
Munster Landfill	Lake	IN		164,719		34,769	34,769
Feddele C/D Landfill	Lake	IN		0		0	0
Gary Sanitary Landfill	Lake	IN		0		0	0
Lake County C/D Site	Lake	IN		112,585		63,966	63,966
Deercroft RDF	LaPorte	IN		0		0	0
Newton County Landfill	Newton	IN		1,102,460		536,777	536,777
Liberty Landfill	White	IN		321,545		23,164	23,164
<b>Subtotal</b>				<b>2,005,287</b>		<b>763,415</b>	
<b>Less, Special Waste</b>							<b>43,901</b>
<b>Total MSW</b>							<b>719,514</b>

2003							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Forest Lawn Landfill	Berrien	MI	3,875,979	1,174,539	1,811,172	548,840	548,840
SE Berrien County	Berrien	MI	589,082	178,510	115	35	35
<b>Subtotal</b>			<b>4,465,061</b>	<b>1,353,049</b>	<b>1,811,287</b>	<b>548,875</b>	<b>548,875</b>
2003							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Madison Prairie	Dane	WI		153,399		165	165
Glacier Ridge	Dodge	WI		285,370		12,526	12,526
Superior Valley Meadows	Jefferson	WI		0		0	0
Pheasant Run RDF	Kenosha	WI		670,868		469,627	469,627
Metro RDF	Milwaukee	WI		871,920		80,941	80,941
Kestrel Hawk	Racine	WI		508,510		279,436	279,436
City of Janesville - Rock Co. LF	Rock	WI		150,087		22,088	22,088
Mallard Ridge	Walworth	WI		323,067		33,728	33,728
Emerald Park	Waukesha	WI		637,418		0	0
Orchard Ridge RDF	Waukesha	WI		822,442		15	15
<b>Subtotal</b>			<b>4,423,081</b>		<b>898,526</b>	<b>898,526</b>	
<b>Less, Special Waste</b>							<b>165</b>
<b>Total MSW</b>							<b>898,361</b>
<b>Total Waste - All States</b>							<b>11,666,535</b>
<b>Total MSW - All States</b>							<b>10,758,162</b>
<b>Population (see Table E.3-5)</b>							<b>8,508,886</b>
Waste Disposal (pcd) - Total Waste							7.5
Waste Disposal (pcd) - MSW Only							6.9

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2002								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	985	526,100	259,104	0	0	259,104
CID RDF #4	Cook	IL	1,842	512,730	472,224	5,653	5,206	467,018
Community Landfill	Grundy	IL	600	87,426	26,228	0	0	26,228
Countryside RDF	Lake	IL	600	1,803,372	541,012	0	0	541,012
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grundy	IL	600	1,835,948	550,784	0	0	550,784
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	452,925	135,878	0	0	135,878
Laraway RDF	Will	IL	1,980	65,819	65,161	0	0	65,161
Lee County Landfill	Lee	IL	600	3,444,057	1,033,217	91,022	27,307	1,005,910
Livingston Landfill	Livingston	IL	656	9,630,512	3,158,808	0	0	3,158,808
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	468	4,413,427	1,032,742	25,663	6,005	1,026,737
River Bend Prairie	Cook	IL	900	620,753	279,339	31,138	14,012	265,327
Settler's Hill RDF	Kane	IL	513	4,299,246	1,102,757	0	0	1,102,757
Streator Area Landfill	Livingston	IL	600	173,077	51,923	1,403	421	51,502
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0
Woodland RDF	Kane	IL	606	928,610	281,397	180	55	281,342
Zion Landfill	Lake	IL	603	2,463,544	742,759	91,440	27,569	715,190
<b>Subtotal</b>			<b>623</b>	<b>31,257,546</b>	<b>9,733,333</b>	<b>246,499</b>	<b>80,575</b>	<b>9,652,758</b>

Less, Special Waste 940,773

Plus, Robbins WTE Cook IL 0 0 0 0 0 0

Total MSW 8,711,985

2002								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
County Line Landfill	Fulton	IN			395,923		168,999	168,999
Munster Landfill	Lake	IN			157,587		33,029	33,029
Feddele C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			28,669		20,756	20,756
Deercroft RDF	LaPorte	IN			787,289		512,325	512,325
Newton County Landfill	Newton	IN			1,073,722		547,819	547,819
Liberty Landfill	White	IN			138,668		8,453	8,453
<b>Subtotal</b>					<b>2,581,858</b>		<b>1,291,381</b>	<b>1,291,381</b>

Less, Special Waste 50,862

Total MSW 1,240,519

2002								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Forest Lawn Landfill	Berrien	MI		3,578,631	1,084,434	1,639,322	496,764	496,764
SE Berrien County	Berrien	MI		537,792	162,967	395	120	120
<b>Subtotal</b>				<b>4,116,423</b>	<b>1,247,401</b>	<b>1,639,717</b>	<b>496,884</b>	<b>496,884</b>

2002								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Madison Prairie	Dane	WI			143,371		4,645	4,645
Glacier Ridge	Dodge	WI			342,641		13,969	13,969
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			603,264		419,530	419,530
Metro RDF	Milwaukee	WI			803,491		64,711	64,711
Kestrel Hawk	Racine	WI			537,054		322,503	322,503
City of Janesville - Rock Co. LF	Rock	WI			153,951		22,905	22,905
Mallard Ridge	Walworth	WI			364,177		75,656	75,656
Emerald Park	Waukesha	WI			792,372		0	0
Orchard Ridge RDF	Waukesha	WI			749,172		4	4
<b>Subtotal</b>				<b>4,489,493</b>		<b>923,923</b>	<b>923,923</b>	

Less, Special Waste 4,645

Total MSW 919,278

Total Waste - All States 12,364,946  
Total MSW - All States 11,368,666

Population (see Table E.3-5) 8,424,601

Waste Disposal (pcd) - Total Waste 8.0  
Waste Disposal (pcd) - MSW Only 7.4

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2001							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)
Beecher Development	Will	IL	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0
CID RDF #3	Cook	IL	985	647,212	318,752	4,107	2,023
CID RDF #4	Cook	IL	1,842	246,097	226,655	3,380	3,113
Community Landfill	Grundy	IL	600	167,619	50,286	0	0
Countyside RDF	Lake	IL	600	1,717,380	515,214	0	0
Dixon/GROP #2	Lee	IL	0	0	0	0	0
Envirotech	Grundy	IL	600	1,657,071	497,121	0	0
Greene Valley	DuPage	IL	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0
Hillside	Cook	IL	600	513,520	154,056	0	0
Laraway RDF	Will	IL	1,980	115,889	114,730	0	0
Lee County Landfill	Lee	IL	600	3,440,363	1,032,109	102,024	30,607
Livingston Landfill	Livingston	IL	656	9,747,743	3,197,260	654	215
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	487	3,515,139	855,936	15,138	3,686
River Bend Prairie	Cook	IL	600	607,781	182,334	7,268	2,180
Settler's Hill RDF	Kane	IL	457	3,919,894	895,696	0	0
Streator Area Landfill	Livingston	IL	600	216,229	64,869	640	192
Wheatland Prairie RDF	Will	IL	550	192,208	52,857	0	0
Woodland RDF	Kane	IL	714	1,317,117	470,211	1,096	391
Zion Landfill	Lake	IL	572	2,359,617	674,850	77,039	22,033
<b>Subtotal</b>			<b>612</b>	<b>30,380,879</b>	<b>9,302,936</b>	<b>211,346</b>	<b>64,440</b>
<b>Less, Special Waste</b>							<b>9,238,496</b>
<b>Plus, Robbins WTE</b>	Cook	IL	0	0	0	0	0
<b>Total MSW</b>							<b>8,515,191</b>
2001							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
County Line Landfill	Fulton	IN			530,075		220,363
Munster Landfill	Lake	IN			157,622		33,580
Feddele C/D Landfill	Lake	IN			0		0
Gary Sanitary Landfill	Lake	IN			0		0
Lake County C/D Site	Lake	IN			0		0
Decercroft RDF	LaPorte	IN			881,725		611,772
Newton County Landfill	Newton	IN			1,176,499		647,816
Liberty Landfill	White	IN			0		0
<b>Subtotal</b>					<b>2,745,921</b>		<b>1,513,531</b>
<b>Less, Special Waste</b>							<b>94,836</b>
<b>Total MSW</b>							<b>1,418,695</b>
2001							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Forest Lawn Landfill	Berrien	MI		4,544,318	1,377,066	2,559,811	775,700
SE Berrien County	Berrien	MI		557,892	169,058	3,185	965
<b>Subtotal</b>				<b>5,102,210</b>	<b>1,546,124</b>	<b>2,562,996</b>	<b>776,665</b>
2001							
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)
Madison Prairie	Dane	WI			140,972		2,703
Glacier Ridge	Dodge	WI			441,749		11,709
Superior Valley Meadows	Jefferson	WI			0		0
Pheasant Run RDF	Kenosha	WI			718,715		525,908
Metro RDF	Milwaukee	WI			596,399		0
Kestrel Hawk	Racine	WI			778,277		526,377
City of Janesville - Rock Co. LF	Rock	WI			127,365		253
Mallard Ridge	Walworth	WI			231,640		14,220
Emerald Park	Waukesha	WI			788,481		0
Orchard Ridge RDF	Waukesha	WI			865,768		1,815
<b>Subtotal</b>					<b>4,689,366</b>		<b>1,082,985</b>
<b>Less, Special Waste</b>							<b>2,703</b>
<b>Total MSW</b>							<b>1,080,282</b>
Total Waste - All States							<b>12,611,677</b>
Total MSW - All States							<b>11,790,833</b>
Population (see Table E.3-5)							<b>8,340,315</b>
Waste Disposal (pcd) - Total Waste							<b>8.3</b>
Waste Disposal (pcd) - MSW Only							<b>7.7</b>

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

2000								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	800	308,050	123,220	0	0	123,220
CID RDF #3	Cook	IL	985	584,545	287,888	2,259	1,113	286,775
CID RDF #4	Cook	IL	1,842	224,365	206,640	2,682	2,470	204,170
Community Landfill	Grundy	IL	600	205,701	61,710	0	0	61,710
Countryside RDF	Lake	IL	600	1,529,215	458,765	0	0	458,765
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
EnvironTech	Grundy	IL	600	2,083,157	624,947	0	0	624,947
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	161,865	48,560	0	0	48,560
Laraway RDF	Will	IL	1,980	475,642	470,886	778	770	470,116
Lee County Landfill	Lee	IL	600	3,052,273	915,682	0	0	915,682
Livingston Landfill	Livingston	IL	656	8,272,419	2,713,353	291	95	2,713,258
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	553	2,600,000	718,900	132	36	718,864
River Bend Prairie	Cook	IL	600	507,816	152,345	507	152	152,193
Settler's Hill RDF	Kane	IL	466	3,920,084	913,380	0	0	913,380
Streator Area Landfill	Livingston	IL	600	674,652	202,396	2,070	621	201,775
Wheatland Prairie RDF	Will	IL	550	742,564	204,205	0	0	204,205
Woodland RDF	Kane	IL	606	858,419	260,101	3,130	948	259,153
Zion Landfill	Lake	IL	521	2,012,593	524,280	85,244	22,206	502,074
<b>Subtotal</b>			<b>630</b>	<b>28,213,360</b>	<b>8,887,258</b>	<b>97,093</b>	<b>28,411</b>	<b>8,858,847</b>
<b>Less, Special Waste</b>								<b>765,103</b>
<b>Plus, Robbins WTE</b>	<b>Cook</b>	<b>IL</b>	<b>606</b>	<b>683,413</b>	<b>207,095</b>	<b>0</b>	<b>0</b>	<b>207,095</b>
<b>Total MSW</b>								<b>8,300,839</b>

2000								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
County Line Landfill	Fulton	IN		494,433			202,427	202,427
Munster Landfill	Lake	IN		149,260			40,423	40,423
Feddele C/D Landfill	Lake	IN		7,631			53	53
Gary Sanitary Landfill	Lake	IN		0			0	0
Lake County C/D Site	Lake	IN		0			0	0
Decerfoot RDF	LaPorte	IN		1,074,816			652,779	652,779
Newton County Landfill	Newton	IN		885,336			546,497	546,497
Liberty Landfill	White	IN		0			0	0
<b>Subtotal</b>				<b>2,611,476</b>			<b>1,442,179</b>	<b>1,442,179</b>
<b>Less, Special Waste</b>								<b>37,078</b>
<b>Total MSW</b>								<b>1,405,101</b>

2000								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Forest Lawn Landfill	Berrien	MI		4,145,910	1,256,336	2,106,015	638,186	638,186
SE Berrien County	Berrien	MI		548,559	166,230	6,082	1,843	1,843
<b>Subtotal</b>				<b>4,694,469</b>	<b>1,422,566</b>	<b>2,112,097</b>	<b>640,029</b>	<b>640,029</b>

2000								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Madison Prairie	Dane	WI		155,002			14,720	14,720
Glacier Ridge	Dodge	WI		428,317			7,019	7,019
Superior Valley Meadows	Jefferson	WI		0			0	0
Pheasant Run RDF	Kenosha	WI		797,312			612,712	612,712
Metro RDF	Milwaukee	WI		451,949			0	0
Kestrel Hawk	Racine	WI		558,611			393,838	393,838
City of Janesville - Rock Co. LF	Rock	WI		156,873			20,476	20,476
Mallard Ridge	Walworth	WI		265,584			76,151	76,151
Emerald Park	Waukesha	WI		650,172			1,043	1,043
Orchard Ridge RDF	Waukesha	WI		932,685			873	873
<b>Subtotal</b>				<b>4,396,505</b>			<b>1,126,832</b>	<b>1,126,832</b>

<b>Less, Special Waste</b>							<b>14,720</b>	
<b>Total MSW</b>							<b>1,112,112</b>	
<b>Total Waste - All States</b>							<b>12,067,887</b>	
<b>Total MSW - All States</b>							<b>11,458,081</b>	

Population (see Table E.3-5) 8,256,027

Waste Disposal (pcd) - Total Waste 8.0  
Waste Disposal (pcd) - MSW Only 7.6

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

1999								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	800	262,000	104,800	0	0	104,800
CID RDF #3	Cook	IL	985	465,831	229,422	4,597	2,264	227,158
CID RDF #4	Cook	IL	1,842	41,916	38,605	11,467	10,561	28,044
Community Landfill	Grundy	IL	600	303,067	90,920	0	0	90,920
Countryside RDF	Lake	IL	600	1,434,843	430,453	0	0	430,453
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grundy	IL	600	1,467,889	446,367	0	0	446,367
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	813,843	244,153	0	0	244,153
Laraway RDF	Will	IL	1,980	188,785	186,897	4,904	4,855	182,042
Lee County Landfill	Lee	IL	600	2,227,247	668,174	0	0	668,174
Livingston Landfill	Livingston	IL	656	6,792,024	2,227,784	530	174	2,227,610
Millard Lake Landfill	DuPage	IL	580	469,317	136,102	0	0	136,102
Orchard Hills Landfill	Ogle	IL	460	4,369,843	1,005,084	0	0	1,005,084
River Bend Prairie	Cook	IL	600	954,946	286,484	15,583	4,675	281,809
Settler's Hill RDF	Kane	IL	481	4,081,394	981,575	0	0	981,575
Streator Area Landfill	Livingston	IL	600	553,694	166,108	0	0	166,108
Wheatland Prairie RDF	Will	IL	490	2,027,665	496,778	0	0	496,778
Woodland RDF	Kane	IL	669	1,171,698	391,933	4,650	1,555	390,378
Zion Landfill	Lake	IL	578	1,788,741	516,946	72,677	21,004	495,942
<b>Subtotal</b>			<b>588</b>	<b>29,434,743</b>	<b>8,648,565</b>	<b>114,408</b>	<b>45,088</b>	<b>8,603,477</b>

Less, Special Waste								774,313
Plus, Robbins WTE	Cook	IL	540	1,398,929	377,852	0	0	377,852
<b>Total MSW</b>								<b>8,207,016</b>

1999								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
County Line Landfill	Fulton	IN			807,409		310,470	310,470
Munster Landfill	Lake	IN			126,396		44,230	44,230
Feddele C/D Landfill	Lake	IN			47,002		21,754	21,754
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			0		0	0
Decerft RDF	LaPorte	IN			544,913		155,661	155,661
Newton County Landfill	Newton	IN			1,416,299		1,174,481	1,174,481
Liberty Landfill	White	IN			100,578		34,288	34,288
<b>Subtotal</b>					<b>3,042,597</b>		<b>1,740,884</b>	<b>1,740,884</b>

Less, Special Waste								124,076
<b>Total MSW</b>								<b>1,616,808</b>

1999								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Forest Lawn Landfill	Berrien	MI		2,329,695	705,968	552,889	167,542	167,542
SE Berrien County	Berrien	MI		604,862	183,292	5,133	1,555	1,555
<b>Subtotal</b>				<b>2,934,557</b>	<b>889,260</b>	<b>558,022</b>	<b>169,097</b>	<b>169,097</b>

1999								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Madison Prairie	Dane	WI			169,669		0	0
Glacier Ridge	Dodge	WI			369,727		5,032	5,032
Superior Valley Meadows	Jefferson	WI			30,747		398	398
Pheasant Run RDF	Kenosha	WI			910,633		740,142	740,142
Metro RDF	Milwaukee	WI			758,539		0	0
Kestrel Hawk	Racine	WI			458,901		310,053	310,053
City of Janesville - Rock Co. LF	Rock	WI			187,590		19,495	19,495
Mallard Ridge	Walworth	WI			198,839		23,886	23,886
Emerald Park	Waukesha	WI			746,152		550	550
Orchard Ridge RDF	Waukesha	WI			702,790		264	264
<b>Subtotal</b>				<b>4,533,587</b>		<b>1,099,820</b>		<b>1,099,820</b>

Less, Special Waste								0
<b>Total MSW</b>								<b>1,099,820</b>

Total Waste - All States								11,613,278
Total MSW - All States								11,092,741

Population (see Table E.3-5) 8,171,741

Waste Disposal (pcd) - Total Waste 7.8  
Waste Disposal (pcd) - MSW Only 7.4

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

1998								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	800	507,000	202,800	0	0	202,800
CID RDF #3	Cook	IL	985	194,718	95,899	7,283	3,587	92,312
CID RDF #4	Cook	IL	1,842	49,946	46,000	0	0	46,000
Community Landfill	Grundy	IL	600	248,125	74,438	0	0	74,438
Countryside RDF	Lake	IL	500	1,382,555	345,639	0	0	345,639
Dixon/GROP #2	Lee	IL	600	819,224	245,767	0	0	245,767
Envirotech	Grundy	IL	600	433,093	129,928	0	0	129,928
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	606	2,098,965	635,966	60,628	18,370	617,616
Hillside	Cook	IL	600	842,646	252,794	0	0	252,794
Laraway RDF	Will	IL	1,980	221,879	219,660	27,125	26,854	192,806
Lee County Landfill	Lee	IL	600	123,342	37,003	0	0	37,003
Livingston Landfill	Livingston	IL	656	5,319,565	1,744,817	7,946	2,606	1,742,211
Millard Lake Landfill	DuPage	IL	580	3,152,203	914,139	0	0	914,139
Orchard Hills Landfill	Ogle	IL	507	1,412,146	357,979	0	0	357,979
River Bend Prairie	Cook	IL	600	297,172	89,152	12,674	3,802	85,350
Settler's Hill RDF	Kane	IL	533	3,050,916	813,069	36	10	813,059
Streator Area Landfill	Livingston	IL	600	693,813	208,144	24,640	7,392	200,752
Wheatland Prairie RDF	Will	IL	560	1,008,693	282,434	0	0	282,434
Woodland RDF	Kane	IL	679	1,267,663	430,372	5,481	1,861	428,511
Zion Landfill	Lake	IL	682	964,685	328,958	40,142	13,688	315,270
<b>Subtotal</b>			<b>619</b>	<b>24,088,349</b>	<b>7,454,978</b>	<b>185,955</b>	<b>78,170</b>	<b>7,376,808</b>
<b>Less, Special Waste</b>								<b>663,913</b>
<b>Plus, Robbins WTE</b>	<b>Cook</b>	<b>IL</b>	<b>606</b>	<b>1,524,468</b>	<b>461,960</b>	<b>0</b>	<b>0</b>	<b>461,960</b>
<b>Total MSW</b>							<b>7,174,855</b>	

1998								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
County Line Landfill	Fulton	IN		605,666		327,314		327,314
Munster Landfill	Lake	IN		163,575		63,451		63,451
Feddele C/D Landfill	Lake	IN		45,661		26,556		26,556
Gary Sanitary Landfill	Lake	IN		0		0		0
Lake County C/D Site	Lake	IN		0		0		0
Deercroft RDF	LaPorte	IN		1,053,526		561,039		561,039
Newton County Landfill	Newton	IN		1,454,485		1,114,593		1,114,593
Liberty Landfill	White	IN		659,988		461,119		461,119
<b>Subtotal</b>				<b>3,982,881</b>		<b>2,554,072</b>		<b>2,554,072</b>
<b>Less, Special Waste</b>								<b>164,995</b>
<b>Total MSW</b>								<b>2,389,077</b>

1998								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Forest Lawn Landfill	Berrien	MI		1,294,962	392,413	157,218	47,642	47,642
SE Berrien County	Berrien	MI		631,321	191,309	1,185	359	359
<b>Subtotal</b>				<b>1,926,283</b>	<b>583,722</b>	<b>158,403</b>	<b>48,001</b>	<b>48,001</b>

1998								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Madison Prairie	Dane	WI		210,357		1,442		1,442
Glacier Ridge	Dodge	WI		416,878		3,782		3,782
Superior Valley Meadows	Jefferson	WI		136,373		1,862		1,862
Pheasant Run RDF	Kenosha	WI		845,808		705,800		705,800
Metro RDF	Milwaukee	WI		863,160		1		1
Kestrel Hawk	Racine	WI		359,385		112,561		112,561
City of Janesville - Rock Co. LF	Rock	WI		164,679		20,359		20,359
Millard Ridge	Walworth	WI		336,596		110,600		110,600
Emerald Park	Waukesha	WI		914,942		162,422		162,422
Orchard Ridge RDF	Waukesha	WI		507,783		242		242
<b>Subtotal</b>				<b>4,755,961</b>		<b>1,119,071</b>		<b>1,119,071</b>

**Less, Special Waste**

**Total MSW**

**Total Waste - All States**

**Total MSW - All States**

**Population (see Table E.3-5)**

**Waste Disposal (pcd) - Total Waste**

**Waste Disposal (pcd) - MSW Only**

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.

2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.

3. Disposal rate based on 365 days per year.

7.5

7.3

8,087,453

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

1997								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	800	625,000	250,000	0	0	250,000
CID RDF #3	Cook	IL	985	449,492	221,375	10,542	5,192	216,183
CID RDF #4	Cook	IL	1,842	405	373	0	0	373
Community Landfill	Grundy	IL	600	150,753	45,226	0	0	45,226
Countryside RDF	Lake	IL	500	1,189,121	297,280	0	0	297,280
Dixon/GROP #2	Lee	IL	600	993,033	297,910	0	0	297,910
Envirotech	Grundy	IL	663	485,470	160,933	0	0	160,933
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	600	707,047	212,114	50,540	15,162	196,952
Hillside	Cook	IL	600	341,138	102,341	0	0	102,341
Laraway RDF	Will	IL	2,000	137,700	137,700	28,264	28,264	109,436
Lee County Landfill	Lee	IL	0	0	0	0	0	0
Livingston Landfill	Livingston	IL	656	5,447,732	1,786,856	13,520	4,435	1,782,421
Mallard Lake Landfill	DuPage	IL	643	3,174,600	1,020,634	0	0	1,020,634
Orchard Hills Landfill	Ogle	IL	0	0	0	0	0	0
River Bend Prairie	Cook	IL	600	292,224	87,667	5,100	1,530	86,137
Settler's Hill RDF	Kane	IL	567	3,387,618	960,390	0	0	960,390
Streator Area Landfill	Livingston	IL	600	572,457	171,737	664	199	171,538
Whealand Prairie RDF	Will	IL	598	755,232	225,814	0	0	225,814
Woodland RDF	Kane	IL	683	1,240,288	423,558	46,795	15,980	407,578
Zion Landfill	Lake	IL	700	23,163	8,107	0	0	8,107
<b>Subtotal</b>			<b>642</b>	<b>19,972,473</b>	<b>6,410,015</b>	<b>155,425</b>	<b>70,762</b>	<b>6,339,253</b>
<b>Less, Special Waste</b>								<b>570,533</b>
<b>Plus, Robbins WTE</b>	Cook	IL	<b>606</b>	<b>1,333,555</b>	<b>404,067</b>	<b>0</b>	<b>0</b>	<b>404,067</b>
<b>Total MSW</b>							<b>6,172,787</b>	

1997								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
County Line Landfill	Fulton	IN			551,200		317,124	317,124
Munster Landfill	Lake	IN			0		0	0
Feddele C/D Landfill	Lake	IN			64,915		37,506	37,506
Gary Sanitary Landfill	Lake	IN			8,425		0	0
Lake County C/D Site	Lake	IN			0		0	0
Deercroft RDF	LaPorte	IN			1,006,120		589,533	589,533
Newton County Landfill	Newton	IN			1,108,051		849,324	849,324
Liberty Landfill	White	IN			774,450		585,740	585,740
<b>Subtotal</b>					<b>3,513,161</b>		<b>2,379,227</b>	<b>2,379,227</b>
<b>Less, Special Waste</b>								<b>177,673</b>
<b>Total MSW</b>								<b>2,201,554</b>

1997								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Forest Lawn Landfill	Berrien	MI		1,384,960	419,685	298,828	90,554	90,554
SE Berrien County	Berrien	MI		653,744	198,104	384	116	116
<b>Subtotal</b>				<b>2,038,704</b>	<b>617,789</b>	<b>299,212</b>	<b>90,670</b>	<b>90,670</b>

1997								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Madison Prairie	Dane	WI			113,006		3,932	3,932
Glacier Ridge	Dodge	WI			315,832		0	0
Superior Valley Meadows	Jefferson	WI			135,690		2,744	2,744
Pheasant Run RDF	Kenosha	WI			837,621		722,188	722,188
Metro RDF	Milwaukee	WI			463,463		0	0
Kestrel Hawk	Racine	WI			149,900		36,509	36,509
City of Janesville - Rock Co. LF	Rock	WI			133,435		19,461	19,461
Mallard Ridge	Walworth	WI			314,224		100,580	100,580
Emerald Park	Waukesha	WI			693,385		2,559	2,559
Orchard Ridge RDF	Waukesha	WI			421,651		135	135
<b>Subtotal</b>				<b>3,578,207</b>		<b>888,108</b>		<b>888,108</b>
<b>Less, Special Waste</b>								<b>3,932</b>
<b>Total MSW</b>								<b>884,176</b>

Total Waste - All States		9,697,258
Total MSW - All States		9,349,187

Population (see Table E.3-5) 8,003,170

Waste Disposal (pcd) - Total Waste 6.6  
Waste Disposal (pcd) - MSW Only 6.4

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

1996								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)
Beecher Development	Will	IL	400	539,395	107,879	7,819	1,564	106,315
CDT Landfill	Will	IL	800	764,000	305,600	0	0	305,600
CID RDF #3	Cook	IL	770	549,000	211,365	6,397	2,463	208,902
CID RDF #4	Cook	IL	2,525	0	0	0	0	0
Community Landfill	Grundy	IL	600	297,988	89,396	0	0	89,396
Countryside RDF	Lake	IL	500	1,328,669	332,167	0	0	332,167
Dixon/GROP #2	Lee	IL	600	897,793	269,338	0	0	269,338
EnvironTech	Grundy	IL	749	506,463	189,670	0	0	189,670
Greene Valley	DuPage	IL	608	6,586,306	1,995,651	0	0	1,995,651
Harbor View	Cook	IL	600	724,274	217,282	55,906	16,772	200,510
Hillside	Cook	IL	600	1,682,700	504,810	0	0	504,810
Laraway RDF	Will	IL	2,000	133,861	133,861	67,317	67,317	66,544
Lee County Landfill	Lee	IL	0	0	0	0	0	0
Livingston Landfill	Livingston	IL	715	2,855,962	1,021,006	3,830	1,369	1,019,637
Mallard Lake Landfill	DuPage	IL	641	4,520,040	1,448,673	0	0	1,448,673
Orchard Hills Landfill	Ogle	IL	0	0	0	0	0	0
River Bend Prairie	Cook	IL	600	279,114	83,734	258	77	83,657
Settler's Hill RDF	Kane	IL	572	2,473,276	707,357	16	5	707,352
Streator Area Landfill	Livingston	IL	600	479,017	143,705	757	227	143,478
Whealand Prairie RDF	Will	IL	900	326,898	147,104	0	0	147,104
Woodland RDF	Kane	IL	892	1,447,866	645,748	6,406	2,857	642,891
Zion Landfill	Lake	IL	700	231,379	80,983	28,159	9,856	71,127
<b>Subtotal</b>			<b>649</b>	<b>26,624,001</b>	<b>8,835,329</b>	<b>176,865</b>	<b>102,507</b>	<b>8,532,822</b>
<b>Less, Special Waste</b>								<b>767,954</b>
<b>Plus, Robbins WTE</b>	<b>Cook</b>	<b>IL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total MSW</b>								<b>7,764,868</b>

1996								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
County Line Landfill	Fulton	IN		587,779		383,391		383,391
Munster Landfill	Lake	IN		36,281		0		0
Feddeler C/D Landfill	Lake	IN		100,918		70,519		70,519
Gary Sanitary Landfill	Lake	IN		212,673		144,271		144,271
Lake County C/D Site	Lake	IN		0		0		0
Deercroft RDF	LaPorte	IN		680,833		278,594		278,594
Newton County Landfill	Newton	IN		543,918		370,701		370,701
Liberty Landfill	White	IN		605,409		388,592		388,592
<b>Subtotal</b>				<b>2,767,811</b>		<b>1,636,068</b>		<b>1,636,068</b>
<b>Less, Special Waste</b>								<b>81,902</b>
<b>Total MSW</b>								<b>1,554,166</b>

1996								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Forest Lawn Landfill	Berrien	MI		1,604,199	486,121	556,958	168,775	168,775
SE Berrien County	Berrien	MI		488,448	148,015	21,545	6,529	6,529
<b>Subtotal</b>				<b>2,092,647</b>	<b>634,136</b>	<b>578,503</b>	<b>175,304</b>	<b>175,304</b>

1996								
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Madison Prairie	Dane	WI		0		0		0
Glacier Ridge	Dodge	WI		314,405		0		0
Superior Valley Meadows	Jefferson	WI		151,104		2,614		2,614
Pheasant Run RDF	Kenosha	WI		451,324		346,315		346,315
Metro RDF	Milwaukee	WI		446,033		0		0
Kestrel Hawk	Racine	WI		167,299		1,000		1,000
City of Janesville - Rock Co. LF	Rock	WI		130,677		16,758		16,758
Mallard Ridge	Walworth	WI		294,280		98,390		98,390
Emerald Park	Waukesha	WI		571,524		0		0
Orchard Ridge RDF	Waukesha	WI		442,724		252		252
<b>Subtotal</b>				<b>2,069,370</b>		<b>465,329</b>		<b>465,329</b>
<b>Less, Special Waste</b>								<b>0</b>
<b>Total MSW</b>								<b>465,329</b>

Total Waste - All States	10,809,523
Total MSW - All States	9,959,667

Population (see Table E.3-5) 7,918,882

Waste Disposal (pcd) - Total Waste 7.5  
Waste Disposal (pcd) - MSW Only 6.9

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA'S ZION LANDFILL, SITE 2 EAST EXPANSION  
TABLE E.3.4 - SPECIAL WASTE LANDFILLED IN ILLINOIS LANDFILLS UTILIZED BY THE CHICAGO METROPOLITAN AREA

#### Notes:

VEOLIA ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E-3-5 - POPULATION DATA FOR CHICAGO METROPOLITAN AREA AND RURAL LANDFILL HOST COUNTIES

County	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	% Change 1990-2008	
Cook	5,105,087	5,132,234	5,159,402	5,186,568	5,213,737	5,240,904	5,268,071	5,296,239	5,322,406	5,346,574	5,376,741	5,403,908	5,431,076	5,458,243	5,485,411	5,512,578	5,539,745	5,565,913	5,594,080	5.3%	
DuPage	781,666	793,916	806,165	816,415	830,664	842,914	855,163	867,413	879,662	891,912	904,161	916,411	928,660	940,910	963,159	965,049	977,658	988,908	1,002,157	1022,995	
Kane	317,471	328,136	334,801	343,465	352,130	360,795	369,460	376,125	386,789	395,454	404,119	412,784	421,449	430,113	438,778	447,443	456,108	464,773	473,437	86,648	
Lake	56,418	523,212	542,006	554,799	567,593	580,387	593,181	605,975	618,768	631,562	644,356	657,150	669,944	682,737	695,531	708,325	721,119	733,913	746,706	127,938	
McHenry	183,241	190,925	198,608	206,292	213,976	221,659	229,343	237,026	244,710	252,393	260,077	267,761	275,444	283,128	290,811	298,495	306,179	313,862	321,546	24,8%	
Will	357,313	371,808	386,304	400,798	415,294	429,790	444,285	458,780	473,275	487,771	502,266	516,761	531,257	545,752	560,247	574,743	599,238	618,228	144,953	40.6%	
<b>Subtotal</b>	<b>7,281,176</b>	<b>7,344,231</b>	<b>7,427,286</b>	<b>7,510,339</b>	<b>7,593,393</b>	<b>7,676,449</b>	<b>7,759,503</b>	<b>7,842,558</b>	<b>7,925,610</b>	<b>8,008,668</b>	<b>8,091,720</b>	<b>8,174,775</b>	<b>8,257,830</b>	<b>8,340,883</b>	<b>8,423,937</b>	<b>8,508,993</b>	<b>8,590,047</b>	<b>8,673,102</b>	<b>8,756,154</b>	<b>835,544</b>	<b>11.4%</b>
Grundy	32,337	32,857	33,377	33,896	34,416	34,936	35,456	35,976	36,495	37,015	37,535	38,055	38,575	39,094	39,614	40,134	40,654	41,174	41,693	5,198	
Lee	34,392	34,569	34,726	34,893	35,060	35,227	35,394	35,561	35,728	35,895	36,062	36,229	36,396	36,563	36,730	36,897	37,054	37,231	37,398	1,670	
Livingston	39,339	39,376	39,414	39,452	39,490	39,527	39,565	39,603	39,640	39,678	39,716	39,753	39,791	39,829	39,867	39,904	39,942	39,980	377	1.0%	
Ogle	45,957	48,485	46,972	47,480	47,987	48,495	49,002	49,510	50,017	50,525	51,032	51,540	52,047	52,555	53,062	53,570	54,077	54,585	55,092	5.0%	
<b>Subtotal</b>	<b>151,887</b>	<b>153,220</b>	<b>154,451</b>	<b>155,683</b>	<b>156,915</b>	<b>158,148</b>	<b>159,379</b>	<b>160,612</b>	<b>161,843</b>	<b>163,075</b>	<b>164,307</b>	<b>165,540</b>	<b>166,771</b>	<b>168,003</b>	<b>169,235</b>	<b>170,468</b>	<b>171,699</b>	<b>172,932</b>	<b>174,163</b>	<b>12,320</b>	<b>8.1%</b>
Whiteside	60,186	60,233	60,279	60,326	60,373	60,420	60,466	60,513	60,560	60,606	60,653	60,700	60,746	60,793	60,840	60,887	60,933	60,980	61,027	467	
Winnebago	262,913	255,464	258,014	260,565	263,115	265,666	268,216	270,767	273,317	275,868	278,418	280,969	283,519	286,070	288,620	291,171	293,721	296,272	298,822	25,505	
<b>Total</b>	<b>7,413,163</b>	<b>7,497,451</b>	<b>7,581,737</b>	<b>7,666,022</b>	<b>7,750,308</b>	<b>7,834,597</b>	<b>7,918,882</b>	<b>8,003,170</b>	<b>8,087,453</b>	<b>8,171,741</b>	<b>8,256,027</b>	<b>8,340,315</b>	<b>8,424,601</b>	<b>8,508,886</b>	<b>8,583,172</b>	<b>8,677,461</b>	<b>9,116,400</b>	<b>9,203,286</b>	<b>9,290,166</b>	<b>868,835</b>	<b>11.4%</b>

Source: 1. Years 1990 and 2000 = U.S. Census Bureau.

2. All other years interpolated/extrapolated between 1990 and 2000 and beyond 2000.

Notes:

1. Winnebago County and Whiteside County population included in Total population beginning in 2006.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS Date: 1/2010

Checked By: PPK Date: 1/2010

**TITLE: WASTE DISPOSAL RATES****Results**

Based on the analysis performed in Steps 1-4, the estimated total waste disposal rate for the Chicago metropolitan area has ranged from 6.6 pounds per capita per day in 1997 to 8.3 pounds per capita per day in 2004.

1996	=	7.5 pounds per capita per day
1997	=	6.6 pounds per capita per day
1998	=	7.5 pounds per capita per day
1999	=	7.8 pounds per capita per day
2000	=	8.0 pounds per capita per day
2001	=	8.3 pounds per capita per day
2002	=	8.0 pounds per capita per day
2003	=	7.5 pounds per capita per day
2004	=	8.3 pounds per capita per day
2005	=	8.1 pounds per capita per day
2006	=	7.8 pounds per capita per day
2007	=	7.6 pounds per capita per day
2008	=	6.8 pounds per capita per day

The estimated municipal solid waste disposal rate for the Chicago metropolitan area has ranged from 6.4 pounds per capita per day in 1997 to 7.7 pounds per capita per day in 2004.

1996	=	6.9 pounds per capita per day
1997	=	6.4 pounds per capita per day
1998	=	7.3 pounds per capita per day
1999	=	7.4 pounds per capita per day
2000	=	7.6 pounds per capita per day
2001	=	7.7 pounds per capita per day
2002	=	7.4 pounds per capita per day
2003	=	6.9 pounds per capita per day
2004	=	7.7 pounds per capita per day
2005	=	7.6 pounds per capita per day
2006	=	7.3 pounds per capita per day
2007	=	7.2 pounds per capita per day
2008	=	6.3 pounds per capita per day

Over the period 1996-2006, disposal rates have generally increased. Periodic cyclical downturns have also occurred during this time. For example, disposal rates decreased slightly during 2002 and 2003 due in part to the economic downturn experienced in 2001 and 2002. During such periods, disposal is likely to decrease for several reasons, including: 1) manufacturing decreases because manufacturers rely more heavily on inventoried stock; 2) consumers extend the life of durable goods and delay home improvement projects; 3) reliance on disposable goods decreases. During 2003 the economy began a period of recovery, which was reflected in the increase in the disposal rate within the metropolitan area. Disposal rates declined again in 2007-2008 as the result of the current recession, which is more severe than in 2001-2002.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS Date: 1/2010

Checked By: PPK Date: 1/2010

**TITLE: WASTE DISPOSAL RATES****Comparison Analysis**

In order to test the conclusions reached in the above analysis for the Chicago metropolitan area, a similar analysis was performed for the State of Illinois as a whole, as well as for the States of Indiana, Michigan and Wisconsin. The following steps were utilized to perform the second analysis.

Step 1. Quantify the amount of waste disposed in all landfills in Illinois (as well as the landfills in the other states).

Step 2. Adjust the quantity in Step 1 for the import and export of waste between the states.

Step 3. Adjust the quantity in Step 2 for special waste. As was noted before, Indiana, Michigan and Wisconsin track special waste separately from municipal solid waste. To quantify the amount of special waste disposed in Illinois landfills, the previously-cited IEPA database of special waste manifests was searched for the years 2000 - 2007. On average, special waste has accounted for about 5 percent by volume and 12 percent by weight of the waste landfilled in Illinois<sup>5</sup>.

Step 4. Divide the estimated amount of waste disposed by each state (derived in Steps 1-3) by the population of each state to calculate the per capita disposal rate.

The data and calculations for each step are summarized in Tables E.3-6, E.3-7 and E.3-8. Total waste disposal rates in Illinois ranged from 6.7 pounds per capita per day in 1997 to 7.9 pounds per capita per day in 2001. The same upward trend is apparent for Illinois as a whole as was indicated for the Chicago metropolitan area. Disposal rates are somewhat higher in the Chicago metropolitan area, likely as the result of greater development and economic activity.

Total waste disposal rates for Indiana ranged from 8.6 pounds per capita per day to 12.7 pounds per capita per day. Total waste disposal rates for Michigan ranged from 6.9 pounds per capita per day to 8.6 pounds per capita per day. Total waste disposal rates for Wisconsin ranged from 7.9 pounds per capita per day to 9.5 pounds per capita per day. These data are largely consistent with the results observed for Illinois.

<sup>5</sup>

As was previously noted, IEPA does not currently publish a report on special waste quantities. In the early 1990s, however, IEPA did publish an annual report on special waste. The last such report was *Illinois - 1994 Nonhazardous Special Waste Annual Report*, published in June 1996. That report indicated that during the period 1979 to 1994, the amount of special waste landfilled in Illinois (including material disposed at on-site landfills) ranged from 1,551,000 cubic yards (1982) to 3,575,000 cubic yards (1993), consistent with the latest available data (refer to Table E.3-7).

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 2008

Illinois Data	MSW Only		All Waste		Notes:
	2008 (cu yds)	2008 (tons)	2008 (cu yds)	2008 (tons)	
Disposed in Illinois					
Landfilled	46,667,960	13,099,779	49,124,168	14,886,112	IEPA Capacity Certification Forms, 1/1/2009. Reflects est. special waste of 5 % by volume and 12 % by weight.
Incinerated	0	0	0	0	
Plus, Exports					
Indiana		2,345,538		2,464,489	IDEM Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators.
Michigan	390,396	118,302	859,072	260,325	MDEQ Annual Report, Table 4.
Ohio		0		32	OEPA Data (2007 data; 2008 data not available as of June 2009)
Wisconsin		1,097,115		1,097,131	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	5,935,250	1,666,035	6,247,632	1,893,222	IEPA 2008 Quarterly State of Origin Reports. Reflects est. special waste of 5 % by volume and 12 % by weight.
Total Disposed		14,994,699		16,814,867	
Population		13,210,246		13,210,246	
Disposal Rate (pcd)		6.2		7.0	
Indiana Data	MSW Only		All Waste		
	2008 (cu yds)	2008 (tons)	2008 (cu yds)	2008 (tons)	
Disposed in Indiana					
Landfilled		8,716,931		14,602,432	IDEM Quarterly Waste Origin Database. LFs only. TSs excluded to avoid double counting.
Incinerated		587,811		656,560	IDEM Quarterly Waste Origin Database. Incinerators only.
Plus, Exports					
Illinois	133,327	40,402	133,327	40,402	IEPA Quarterly Waste Origin Reports.
Michigan	1,082,113	327,913	1,405,435	425,889	MDEQ Annual Report, Table 4.
Ohio		109,863		228,659	OEPA Data (2007 data; 2008 data not available as of June 2009)
Wisconsin		16		16	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		2,687,544		2,889,976	IDEM Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators.
Total Disposed		7,095,392		13,063,982	
Population		6,509,546		6,509,546	
Disposal Rate (pcd)		6.0		11.0	
Michigan Data	MSW Only		All Waste		
	2008 (cu yds)	2008 (tons)	2008 (cu yds)	2008 (tons)	
Disposed in Michigan					
Landfilled	41,803,789	12,667,815	57,119,896	17,309,059	MDEQ Annual Report, Table 3. Includes LFs.
Incinerated		965,601		989,158	MDEQ Data (2007 data; 2008 data not available as of June 2009)
Plus, Exports					
Illinois	7,259	2,200	7,259	2,200	IEPA Quarterly Waste Origin Reports.
Indiana		72,213		76,238	IDEM Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators.
Ohio		21,661		24,398	OEPA Data (2007 data; 2008 data not available as of June 2009)
Wisconsin		28,336		28,336	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	13,721,014	4,157,883	17,206,260	5,214,018	MDEQ Annual Report, Table 3.
Total Disposed		9,599,943		13,215,371	
Population		10,452,962		10,452,962	
Disposal Rate (pcd)		5.0		6.9	
Wisconsin Data	MSW Only		All Waste		
	2008 (cu yds)	2008 (tons)	2008 (cu yds)	2008 (tons)	
Landfilled in Wisconsin		6,217,142		10,180,794	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	127,605	38,668	127,605	38,668	IEPA Quarterly Waste Origin Reports.
Indiana		404		3,894	IDEM Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators.
Michigan	304,772	92,355	353,036	106,981	MDEQ Annual Report, Table 4.
Ohio		0		0	OEPA Data (2007 data; 2008 data not available as of June 2009)
Minus, Imports		1,720,711		1,721,897	WDNR Annual Spreadsheet. Includes LFs.
Total Disposed		4,626,672		8,608,440	
Population		5,741,200		5,741,200	
Disposal Rate (pcd)		4.4		8.2	

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 2007

Illinois Data		MSW Only 2007 (cu yds)		All Waste 2007 (cu yds)		2007 (tons)		Notes:
Disposed in Illinois								
Landfilled	52,184,681	15,019,203		53,783,041		16,297,891		IEPA Capacity Certification Forms, 1/1/2008. Reflects 1,598,360 c.y. (1,278,688 tons) of special waste.
Incinerated	0	0		0		0		
Plus, Exports								
Indiana		2,093,319				2,250,835		IDEML Annual Report, Table 17 and Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators.
Michigan	567,539	171,982		817,665		247,777		MDEQ Annual Report, Table 4.
Ohio		0				32		OEPA Data
Wisconsin		1,261,654				1,261,654		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	6,673,954	1,873,391		7,025,215		2,128,853		IEPA 2007 Quarterly State of Origin Reports. Reflects est. special waste of 5 % by volume and 12 % by weight.
Total Disposed		16,672,767				17,929,336		
Population		13,111,377				13,111,377		
Disposal Rate (pcd)		7.0				7.5		
Indiana Data		MSW Only 2007 (cu yds)		All Waste 2007 (cu yds)		2007 (tons)		
Disposed in Indiana								
Landfilled		8,742,944				14,519,425		IDEML Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		556,132				612,097		IDEML Annual Report, Table 14.
Plus, Exports								
Illinois	254,155	77,017		254,155		77,017		IEPA Quarterly Waste Origin Reports.
Michigan	1,436,334	435,253		1,810,564		548,656		MDEQ Annual Report, Table 4.
Ohio		109,863				228,659		OEPA Data
Wisconsin		1				1		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		2,449,229				2,720,427		IDEML Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,471,980				13,265,428		
Population		6,455,913				6,455,913		
Disposal Rate (pcd)		6.3				11.3		
Michigan Data		MSW Only 2007 (cu yds)		All Waste 2007 (cu yds)		2007 (tons)		
Disposed in Michigan								
Landfilled	43,767,246	13,262,802		58,204,510		17,637,730		MDEQ Annual Report, Table 3. Includes LFs.
Incinerated		965,601				989,158		MDEQ Data.
Plus, Exports								
Illinois	1,328	402		1,328		402		IEPA Quarterly Waste Origin Reports.
Indiana		84,489				88,717		IDEML Annual Report, Table 17 and Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators.
Ohio		21,661				24,398		OEPA Data
Wisconsin		3,546				3,546		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	14,252,199	4,318,848		17,154,838		5,198,436		MDEQ Annual Report, Table 3.
Total Disposed		10,019,653				13,545,515		
Population		10,388,647				10,388,647		
Disposal Rate (pcd)		5.3				7.1		
Wisconsin Data		MSW Only 2007 (cu yds)		All Waste 2007 (cu yds)		2007 (tons)		
Landfilled in Wisconsin								
		6,516,037				10,896,255		WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports								
Illinois	127,680	38,691		127,680		38,691		IEPA Quarterly Waste Origin Reports.
Indiana		650				4,298		IDEML Annual Report, Table 17 and Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators.
Michigan	393,042	119,104		435,091		131,846		MDEQ Annual Report, Table 4.
Ohio		0				0		OEPA Data
Minus, Imports		1,912,174				1,915,103		WDNR Annual Spreadsheet. Includes LFs.
Total Disposed		4,759,379				9,155,987		
Population		5,694,009				5,694,009		
Disposal Rate (pcd)		4.6				8.8		

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 2006

Illinois Data		MSW Only 2006 (cu yds)	2006 (tons)	All Waste 2006 (cu yds)	2006 (tons)	Notes:
Disposed in Illinois		52,785,837 0	14,927,310 0	54,935,662 0	16,647,170 0	IEPA Capacity Certification Forms, 1/1/2007. Reflects 2,149,825 c.y. (1,719,860 tons) of special waste.
Landfilled Incinerated						
Plus, Exports						
Indiana		2,228,978		2,361,847		IDEPA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan		1,588,424	481,341	1,588,424	481,341	MDEQ Annual Report, Table 4.
Ohio			0		12	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin			1,224,077		1,224,077	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		6,782,934	1,903,982	7,139,931	2,163,615	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed			16,957,724		18,550,831	
Population			13,012,508		13,012,508	
Disposal Rate (pcd)			7.1		7.8	
Indiana Data		MSW Only 2006 (cu yds)	2006 (tons)	All Waste 2006 (cu yds)	2006 (tons)	
Disposed in Indiana						
Landfilled Incinerated		9,138,449 600,183		14,542,880 644,655		IDEPA Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEPA Annual Report, Table 14.
Plus, Exports						
Illinois		662,044	200,619	662,044	200,619	IEPA Quarterly Waste Origin Database.
Michigan		2,196,646	665,650	2,196,909	665,730	MDEQ Annual Report, Table 4.
Ohio			125,075		251,006	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin			0		0	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports			2,521,688		2,770,714	IDEPA Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed			8,208,288		13,534,177	
Population			6,402,281		6,402,281	
Disposal Rate (pcd)			7.0		11.6	
Michigan Data		MSW Only 2006 (cu yds)	2006 (tons)	All Waste 2006 (cu yds)	2006 (tons)	
Disposed in Michigan						
Landfilled Incinerated		44,923,089	13,613,057 1,159,814	61,887,555	18,753,805 1,208,017	MDEQ Annual Report, Table 3. Includes LFs. MDEQ data.
Plus, Exports						
Illinois		0	0	0	0	IEPA Quarterly Waste Origin Database.
Indiana			97,308		101,028	IDEPA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Ohio			33,544		37,674	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin			2,142		2,142	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		16,433,441	4,979,831	19,035,532	5,768,343	MDEQ Annual Report, Table 4.
Total Disposed			9,926,034		14,334,323	
Population			10,324,332		10,324,332	
Disposal Rate (pcd)			5.3		7.6	
Wisconsin Data		MSW Only 2006 (cu yds)	2006 (tons)	All Waste 2006 (cu yds)	2006 (tons)	
Landfilled in Wisconsin			6,565,763		11,256,230	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois		152,418	46,187	152,418	46,187	IEPA Quarterly Waste Origin Database.
Indiana			512		2,768	IDEPA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan		357,244	108,256	426,875	129,356	MDEQ Annual Report, Table 4.
Ohio			0		49	OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports			1,910,007		1,914,098	WDNR Annual Spreadsheet. Includes LFs.
Total Disposed			4,810,711		9,522,492	
Population			5,646,819		5,646,819	
Disposal Rate (pcd)			4.7		9.2	

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 2005

Illinois Data	MSW Only 2005 (cu yds)	2005 (tons)	All Waste 2005 (cu yds)	2005 (tons)	Notes:
Disposed in Illinois					
Landfilled	49,513,776	13,621,854	52,295,275	15,847,053	IEPA Capacity Certification Forms, 1/1/2006. Reflects 2,781,499 c.y. (2,225,199 tons) of special waste.
Incinerated	0	0	0	0	
Plus, Exports					
Indiana		2,632,160		2,733,598	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	1,249,614	378,671	1,249,614	378,671	MDEQ Annual Report, Table 4. Includes LFs.
Ohio		0		11	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		1,412,151		1,412,153	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	6,430,009	1,804,914	6,768,430	2,051,039	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		16,239,922		18,320,447	
Population		12,913,639		12,913,639	
Disposal Rate (pcd)		6.9		7.8	
Indiana Data	MSW Only 2005 (cu yds)	2005 (tons)	All Waste 2005 (cu yds)	2005 (tons)	
Disposed in Indiana					
Landfilled		9,315,942		15,087,433	IDEA Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		622,348		666,550	IDEA Annual Report, Table 14.
Plus, Exports					
Illinois	204,119	61,854	204,119	61,854	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	2,193,810	664,791	2,193,915	664,823	MDEQ Annual Report, Table 4. Includes LFs.
Ohio		106,696		174,577	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		0		0	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		2,918,895		3,127,479	IDEA Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,852,736		13,527,758	
Population		6,348,648		6,348,648	
Disposal Rate (pcd)		6.8		11.7	
Michigan Data	MSW Only 2005 (cu yds)	2005 (tons)	All Waste 2005 (cu yds)	2005 (tons)	
Disposed in Michigan					
Landfilled	49,882,921	15,116,037	63,792,120	19,330,945	MDEQ Annual Report, Table 3. Includes LFs.
Incinerated		877,190		877,190	MDEQ data.
Plus, Exports					
Illinois	0	0	0	0	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		78,587		84,368	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Ohio		49,105		56,465	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		1,676		1,676	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	16,326,132	4,947,313	18,490,320	5,603,127	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		11,175,282		14,747,517	
Population		10,260,018		10,260,018	
Disposal Rate (pcd)		6.0		7.9	
Wisconsin Data	MSW Only 2005 (cu yds)	2005 (tons)	All Waste 2005 (cu yds)	2005 (tons)	
Landfilled in Wisconsin		6,685,042		11,099,240	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	155,284	47,056	155,284	47,056	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		0		1,521	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	634,944	192,407	645,514	195,610	MDEQ Annual Report, Table 4. Includes LFs.
Ohio		0		8	OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		2,143,094		2,143,133	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,781,411		9,200,302	
Population		5,599,628		5,599,628	
Disposal Rate (pcd)		4.7		9.0	

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 2004

Illinois Data		MSW Only 2004 (cu yds)	2004 (tons)	All Waste 2004 (cu yds)	2004 (tons)	Notes:
Disposed in Illinois		50,984,114 0	14,152,329 0	53,594,741 0	16,240,831 0	IEPA Capacity Certification Forms, 1/1/2005. Reflects 2,610,628 c.y. (2,088,502 tons) of special waste.
Plus, Exports						
Indiana		2,074,438		2,179,642		IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	1,768,849	536,015		536,124		MDEQ Annual Report, Table 4. Includes LFs.
Ohio		0		447		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		1,407,917		1,407,945		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		6,878,310	1,930,753	7,240,326	2,194,038	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed			16,239,946		18,170,951	
Population Disposal Rate (pcd)		12,814,769 6.9		12,814,769 7.8		
Indiana Data		MSW Only 2004 (cu yds)	2004 (tons)	All Waste 2004 (cu yds)	2004 (tons)	
Disposed in Indiana						
Landfilled		8,636,352		13,906,496		IDEA Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		647,911		684,007		IDEA Annual Report, Table 14.
Plus, Exports						
Illinois	203,180	61,570	203,180	61,570		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	1,963,208	594,912	1,965,948	595,742		MDEQ Annual Report, Table 4. Includes LFs.
Ohio		89,542		152,113		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		0		0		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports			2,365,291		2,563,561	IDEA Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed			7,664,996		12,836,367	
Population Disposal Rate (pcd)		6,295,015 6.7		6,295,015 11.2		
Michigan Data		MSW Only 2004 (cu yds)	2004 (tons)	All Waste 2004 (cu yds)	2004 (tons)	
Disposed in Michigan						
Landfilled	50,316,545	15,247,438	64,287,255	19,480,986		MDEQ Annual Report, Table 3. Includes LFs.
Incinerated		842,637		852,823		MDEQ data.
Plus, Exports						
Illinois	55	17	55	17		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		72,539		84,547		IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Ohio		47,926		63,075		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		9,081		9,081		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		15,692,073	4,755,174	18,136,302	5,495,849	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed			11,464,464		14,994,680	
Population Disposal Rate (pcd)		10,195,703 6.2		10,195,703 8.1		
Wisconsin Data		MSW Only 2004 (cu yds)	2004 (tons)	All Waste 2004 (cu yds)	2004 (tons)	
Landfilled in Wisconsin			6,734,457	11,098,114		WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	191,493	58,028	191,493	58,028		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		0		1,380		IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	406,901	123,303	467,057	141,532		MDEQ Annual Report, Table 4. Includes LFs.
Ohio		0		0		OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports			2,155,171		2,155,365	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled			4,760,617		9,143,689	
Population Disposal Rate (pcd)		5,552,437 4.7		5,552,437 9.0		

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
 TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
 YEAR 2003

Illinois Data	MSW Only 2003 (cu yds)		All Waste 2003 (cu yds)		Notes:
	2003 (tons)	2003 (tons)	2003 (tons)	2003 (tons)	
Disposed in Illinois					
Landfilled	54,819,290	15,465,946	57,125,185	17,310,662	IEPA Capacity Certification Forms, 1/1/2004. Reflects 2,305,895 cu. yds. (1,844,716 tons) of special waste.
Incinerated	0	0	0	0	
Plus, Exports					
Indiana		776,275		831,010	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	1,846,199	559,454	1,846,199	559,454	MDEQ Annual Report, Tables 6 & 7. Includes LFs.
Ohio		0		447	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		898,569		898,734	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	5,896,513	1,655,161	6,206,856	1,880,865	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		16,045,083		17,719,442	
Population		12,715,900		12,715,900	
Disposal Rate (pcd)		6.9		7.6	
Indiana Data	MSW Only 2003 (cu yds)		All Waste 2003 (cu yds)		
	2003 (tons)	2003 (tons)	2003 (tons)	2003 (tons)	
Disposed in Indiana					
Landfilled		7,273,562		12,336,489	IDEA Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		697,634		722,338	IDEA Annual Report, Table 14.
Plus, Exports					
Illinois	139,294	42,210	139,294	42,210	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	1,783,267	540,384	1,783,267	540,384	MDEQ Annual Report, Tables 6 & 7. Includes LFs.
Ohio		100,514		157,512	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		0		0	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		1,002,077		1,134,878	IDEA Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,652,227		12,664,055	
Population		6,241,383		6,241,383	
Disposal Rate (pcd)		6.7		11.1	
Michigan Data	MSW Only 2003 (cu yds)		All Waste 2003 (cu yds)		
	2003 (tons)	2003 (tons)	2003 (tons)	2003 (tons)	
Disposed in Michigan					
Landfilled	56,557,341	17,138,588	62,615,429	18,974,372	MDEQ Annual Report, Tables 1 & 3. Includes LFs.
Incinerated		775,095		795,831	MDEQ data.
Plus, Exports					
Illinois	0	0	0	0	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		66,639		77,777	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Ohio		34,067		45,562	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		16,427		16,427	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	14,860,620	4,503,218	15,499,468	4,696,808	MDEQ Annual Report, Table 5. Includes LFs.
Total Disposed		13,527,598		15,213,161	
Population		10,131,388		10,131,388	
Disposal Rate (pcd)		7.3		8.2	
Wisconsin Data	MSW Only 2003 (cu yds)		All Waste 2003 (cu yds)		
	2003 (tons)	2003 (tons)	2003 (tons)	2003 (tons)	
Landfilled in Wisconsin		5,987,193		9,939,092	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	165,069	50,021	165,069	50,021	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		0		682	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	541,094	163,968	551,569	167,142	MDEQ Annual Report, Tables 6 & 7. Includes LFs.
Ohio		0		0	OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		1,480,823		1,480,988	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,720,359		8,675,949	
Population		5,505,247		5,505,247	
Disposal Rate (pcd)		4.7		8.6	

Notes:

1. Indiana landfills report the following types of waste:  
 MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
 MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.

2. Michigan landfills report the following types of waste:

Type II, General Type III, Type III Mixed, and Type III Separated.

Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.

Type II generally falls under the Illinois definition of municipal solid waste.

3. Wisconsin landfills report the following types of waste:

Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
 Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
 Contaminated Soil - Daily Cover.

Municipal Waste falls under the Illinois definition of municipal solid waste.

4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.

5. "All Waste" includes special waste and municipal solid waste.

6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
 TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
 YEAR 2002

Illinois Data	MSW Only 2002 (cu yds)	2002 (tons)	All Waste 2002 (cu yds)	2002 (tons)	Notes:
Disposed in Illinois					
Landfilled	51,968,372	14,415,271	54,650,066	16,560,626	IEPA Annual Report. Reflects 2,681,694 c.y. (2,145,355 tons) of special waste.
Incinerated	0	0	0	0	
Plus, Exports					
Indiana		1,311,260		1,376,041	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	1,697,247	514,317	1,697,441	514,376	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		1		4,844	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		919,277		923,922	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	5,517,528	1,548,780	5,807,924	1,759,977	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		15,611,346		17,619,832	
Population		12,617,031		12,617,031	
Disposal Rate (pcd)		6.8		7.7	
Indiana Data	MSW Only 2002 (cu yds)	2002 (tons)	All Waste 2002 (cu yds)	2002 (tons)	
Disposed in Indiana					
Landfilled		7,472,237		12,686,771	IDEA Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		646,621		688,212	IDEA Annual Report, Table 14.
Plus, Exports					
Illinois	143,334	43,435	143,334	43,435	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	1,701,290	515,542	1,701,290	515,542	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		84,767		142,375	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		0		0	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		1,445,435		1,557,930	IDEA Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,317,167		12,618,405	
Population		6,187,750		6,187,750	
Disposal Rate (pcd)		6.5		11.1	
Michigan Data	MSW Only 2002 (cu yds)	2002 (tons)	All Waste 2002 (cu yds)	2002 (tons)	
Disposed in Michigan					
Landfilled	51,041,788	15,467,208	57,540,922	17,436,643	MDEQ Annual Report, Table 1. Includes LFs.
Incinerated		779,703		800,495	MDEQ data.
Plus, Exports					
Illinois	2	1	2	1	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		71,714		78,596	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Ohio		37,741		60,380	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		51,587		51,587	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	11,450,596	3,469,878	11,494,443	3,483,165	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		12,938,076		14,944,537	
Population		10,067,073		10,067,073	
Disposal Rate (pcd)		7.0		8.1	
Wisconsin Data	MSW Only 2002 (cu yds)	2002 (tons)	All Waste 2002 (cu yds)	2002 (tons)	
Landfilled in Wisconsin		5,869,087		10,119,418	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	199,039	60,315	199,039	60,315	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		54		472	IDEA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	423,374	128,295	437,981	132,722	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		50	OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		1,402,347		1,408,992	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,675,404		8,905,985	
Population		5,458,056		5,458,056	
Disposal Rate (pcd)		4.7		8.9	

Notes:

1. Indiana landfills report the following types of waste:  
 MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
 MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
 Type II, General Type III, Type III Mixed, and Type III Separated.  
 Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
 Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
 Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
 Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
 Contaminated Soil - Daily Cover.  
 Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 2001

Illinois Data					
	MSW Only		All Waste		Notes:
	2001 (cu yds)	2001 (tons)	2001 (cu yds)	2001 (tons)	
Disposed in Illinois					
Landfilled	50,746,374	14,431,782	52,649,722	15,954,461	IEPA Annual Report. Reflects 1,903,348 c.y. (1,522,679 tons) of special waste.
Incinerated	0	0	0	0	
Plus, Exports					
Indiana		1,490,443		1,595,205	IDEPA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	2,572,316	779,490	2,572,326	779,493	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		17		54,677	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		1,080,282		1,082,985	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	4,517,438	1,268,053	4,755,198	1,440,969	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		16,513,961		18,025,852	
Population		12,518,162		12,518,162	
Disposal Rate (pcd)		7.2		7.9	
Indiana Data					
	MSW Only		All Waste		
	2001 (cu yds)	2001 (tons)	2001 (cu yds)	2001 (tons)	
Disposed in Indiana					
Landfilled		7,743,865		13,019,918	IDEPA Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		636,072		666,346	IDEPA Annual Report, Table 14.
Plus, Exports					
Illinois	162,032	49,101	162,032	49,101	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	1,768,909	536,033	1,768,909	536,033	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		117,682		180,407	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		0		0	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		1,599,115		1,739,778	IDEPA Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,483,638		12,712,027	
Population		6,134,118		6,134,118	
Disposal Rate (pcd)		6.7		11.4	
Michigan Data					
	MSW Only		All Waste		
	2001 (cu yds)	2001 (tons)	2001 (cu yds)	2001 (tons)	
Disposed in Michigan					
Landfilled	52,786,891	15,996,028	60,250,612	18,257,761	MDEQ Annual Report, Table 1. Includes LFs.
Incinerated		812,301		833,196	MDEQ data.
Plus, Exports		0	0	0	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Illinois		0		0	IDEPA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Indiana		61,667		65,222	OEPA Annual Summary Import/Export Data. Includes LFs.
Ohio		49,478		81,136	WDNR Annual Spreadsheet. Includes LFs.
Wisconsin		956		956	
Minus, Imports	11,790,113	3,572,762	11,872,507	3,597,729	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		13,347,668		15,640,542	
Population		10,002,759		10,002,759	
Disposal Rate (pcd)		7.3		8.6	
Wisconsin Data					
	MSW Only		All Waste		
	2001 (cu yds)	2001 (tons)	2001 (cu yds)	2001 (tons)	
Landfilled in Wisconsin		5,858,904		10,387,654	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	188,326	57,068	188,326	57,068	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		1,239		1,340	IDEPA Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	483,258	146,442	483,258	146,442	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		15	OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		1,542,728		1,545,431	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,520,925		9,047,088	
Population		5,410,866		5,410,866	
Disposal Rate (pcd)		4.6		9.2	

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 2000

Illinois Data		MSW Only		All Waste		Notes:
		2000 (cu yds)	2000 (tons)	2000 (cu yds)	2000 (tons)	
Disposed in Illinois						
Landfilled	46,941,372	13,056,378	49,292,180	14,937,024		IEPA Annual Report. Reflects 2,350,808 c.y. (1,880,646 tons) of special waste.
Incinerated	683,413	207,095	683,413	207,095		IEPA Annual Report.
Plus, Exports						
Indiana		1,441,761		1,515,891		IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	2,112,419	640,127	2,112,428	640,130		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		1		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		1,112,113		1,126,833		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	4,851,218	1,361,745	5,106,545	1,547,438		IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		15,095,729		16,879,536		
Population Disposal Rate (pcd)		12,419,293 6.7		12,419,293 7.4		
Indiana Data		MSW Only		All Waste		
		2000 (cu yds)	2000 (tons)	2000 (cu yds)	2000 (tons)	
Disposed in Indiana						
Landfilled		7,664,057		13,071,081		IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		632,880		661,552		IDEM Annual Report, Table 14.
Plus, Exports						
Illinois	170,742	51,740	170,742	51,740		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	1,878,791	569,331	1,878,791	569,331		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		118,253		158,667		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		0		0		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		1,530,728		1,611,901		IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,505,533		12,900,470		
Population Disposal Rate (pcd)		6,080,485 6.8		6,080,485 11.6		
Michigan Data		MSW Only		All Waste		
		2000 (cu yds)	2000 (tons)	2000 (cu yds)	2000 (tons)	
Disposed in Michigan						
Landfilled	50,385,066	15,268,202	56,152,311	17,015,852		MDEQ Annual Report, Table 1. Includes LFs.
Incinerated		689,713		711,243		MDEQ data.
Plus, Exports						
Illinois	710	215	710	215		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		40,188		40,256		IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Ohio		38,145		45,045		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		7,805		7,805		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	9,348,355	2,832,835	9,373,115	2,840,338		MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		13,211,433		14,980,878		
Population Disposal Rate (pcd)		9,938,444 7.3		9,938,444 8.3		
Wisconsin Data		MSW Only		All Waste		
		2000 (cu yds)	2000 (tons)	2000 (cu yds)	2000 (tons)	
Landfilled in Wisconsin		5,623,852		9,936,153		WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	188,650	57,167	188,650	57,167		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		921		968		IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	504,652	152,925	504,652	152,925		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		23		OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		1,438,783		1,453,503		WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,396,082		8,693,733		
Population Disposal Rate (pcd)		5,363,675 4.5		5,363,675 8.9		

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 1999

Illinois Data	MSW Only 1999 (cu yds)		All Waste 1999 (cu yds)		Notes:
	1999 (cu yds)	1999 (tons)	1999 (cu yds)	1999 (tons)	
Disposed in Illinois					
Landfilled	48,023,939	13,480,404	50,551,515	15,318,641	IEPA Annual Report. Reflects est. special waste of 5 % by volume and 12 % by weight.
Incinerated	1,398,929	377,852	1,398,929	377,852	IEPA Annual Report.
Plus, Exports					
Indiana		1,645,396		1,779,180	IDEML Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	558,117	169,126	558,167	169,142	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		60	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		1,107,136		1,107,136	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	4,833,875	1,356,877	5,088,289	1,541,906	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		15,423,037		17,210,105	
Population		12,320,424		12,320,424	
Disposal Rate (pcd)		6.9		7.7	
Indiana Data	MSW Only 1999 (cu yds)		All Waste 1999 (cu yds)		
	1999 (cu yds)	1999 (tons)	1999 (cu yds)	1999 (tons)	
Disposed in Indiana					
Landfilled		7,838,469		13,611,071	IDEML Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		669,718		697,619	IDEML Annual Report, Table 14.
Plus, Exports					
Illinois	210,568	63,808	210,568	63,808	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	1,827,413	553,762	1,827,413	553,762	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		78,603		131,142	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		0		8	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		1,753,096		2,147,830	IDEML Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,451,264		12,909,580	
Population		6,026,852		6,026,852	
Disposal Rate (pcd)		6.8		11.7	
Michigan Data	MSW Only 1999 (cu yds)		All Waste 1999 (cu yds)		
	1999 (cu yds)	1999 (tons)	1999 (cu yds)	1999 (tons)	
Disposed in Michigan					
Landfilled	44,938,189	13,617,633	51,957,465	15,744,686	MDEQ Annual Report, Table 1. Includes LFs.
Incinerated		968,129		991,899	MDEQ data.
Plus, Exports					
Illinois	0	0	0	0	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		35,947		37,021	IDEML Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Ohio		36,697		87,669	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		11,632		11,632	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	6,331,735	1,918,708	6,349,695	1,924,150	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		12,751,330		14,948,757	
Population		9,874,129		9,874,129	
Disposal Rate (pcd)		7.1		8.3	
Wisconsin Data	MSW Only 1999 (cu yds)		All Waste 1999 (cu yds)		
	1999 (cu yds)	1999 (tons)	1999 (cu yds)	1999 (tons)	
Landfilled in Wisconsin		5,413,566		10,163,642	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	182,129	55,191	182,129	55,191	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		1,118		1,274	IDEML Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	619,824	187,825	619,824	187,825	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		535	OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		1,392,049		1,392,049	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,265,651		9,016,418	
Population		5,316,484		5,316,484	
Disposal Rate (pcd)		4.4		9.3	

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 1998

Illinois Data		MSW Only		All Waste		Notes:
		1998 (cu yds)	1998 (tons)	1998 (cu yds)	1998 (tons)	
Disposed in Illinois						
Landfilled	42,553,983	11,944,977	44,793,666	13,573,838		IEPA Annual Report. Reflects est. special waste of 5 % by volume and 12 % by weight.
Incinerated	1,498,205	461,960	1,498,205	461,960		IEPA Annual Report.
Plus, Exports						
Indiana		2,433,903		2,604,269		IDEML Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	158,414	48,004	158,417	48,005		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		161		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		1,117,628		1,119,070		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	4,630,957	1,299,918	4,874,692	1,477,179		IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		14,706,554		16,330,124		
Population		12,221,555		12,221,555		
Disposal Rate (pcd)		6.6		7.3		
Indiana Data		MSW Only		All Waste		
		1998 (cu yds)	1998 (tons)	1998 (cu yds)	1998 (tons)	
Disposed in Indiana						
Landfilled		8,459,772		15,392,694		IDEML Annual Report, Table 6. LFs only. TSs excluded to avoid double counting.
Incinerated		670,380		695,932		IDEML Annual Report, Table 14.
Plus, Exports						
Illinois	255,967	77,566	255,967	77,566		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	1,265,613	383,519	1,265,613	383,519		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		78,504		142,872		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		0		0		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		2,559,470		2,871,225		IDEML Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,110,271		13,821,358		
Population		5,973,220		5,973,220		
Disposal Rate (pcd)		6.5		12.7		
Michigan Data		MSW Only		All Waste		
		1998 (cu yds)	1998 (tons)	1998 (cu yds)	1998 (tons)	
Disposed in Michigan						
Landfilled	41,747,904	12,650,880	46,741,233	14,164,010		MDEQ Annual Report, Table 1. Includes LFs.
Incinerated		981,515		1,020,374		MDEQ data.
Plus, Exports						
Illinois	0	0	0	0		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		37,854		38,008		IDEML Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Ohio		54,571		60,057		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		1,029		1,029		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	5,704,054	1,728,501	5,735,187	1,737,935		MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		11,997,348		13,545,543		
Population		9,809,815		9,809,815		
Disposal Rate (pcd)		6.7		7.6		
Wisconsin Data		MSW Only		All Waste		
		1998 (cu yds)	1998 (tons)	1998 (cu yds)	1998 (tons)	
Landfilled in Wisconsin			5,413,566		10,163,642	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	98,341	29,800	98,341	29,800		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		807		1,171		IDEML Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators.
Michigan	631,774	191,447	631,774	191,447		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		395		OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		1,216,363		1,217,805		WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,419,257		9,168,650		
Population		5,269,294		5,269,294		
Disposal Rate (pcd)		4.6		9.5		

Notes:

1. Indiana landfills report the following types of waste:  
    MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
    MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
    Type II, General Type III, Type III Mixed, and Type III Separated.  
    Type II includes MSV and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
    Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
    Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
    Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
    Contaminated Soil - Daily Cover.  
    Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 1997

Illinois Data		MSW Only		All Waste		Notes:
		1997 (cu yds)	1997 (tons)	1997 (cu yds)	1997 (tons)	
Disposed in Illinois						
Landfilled	38,374,102	10,771,678	40,393,792	12,240,543		IEPA Annual Report. Reflects est. special waste of 5 % by volume and 12 % by weight.
Incinerated	1,333,555	404,067	1,333,555	404,067		IEPA Annual Report.
Plus, Exports						
Indiana		2,244,290		2,435,357		IDEML Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators.
Michigan	299,373	90,719	299,403	90,728		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		319		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		884,157		888,089		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	4,107,810	1,153,069	4,324,010	1,310,306		IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		13,241,842		14,748,797		
Population Disposal Rate (pcd)		12,122,686	6.0	12,122,686	6.7	
Indiana Data		MSW Only		All Waste		
		1997 (cu yds)	1997 (tons)	1997 (cu yds)	1997 (tons)	
Disposed in Indiana						
Landfilled		7,927,373		13,821,044		IDEML Annual Report, Table 5. LFs only. TSs excluded to avoid double counting.
Incinerated		681,147		709,330		IDEML Annual Report, Table 13.
Plus, Exports						
Illinois	155,204	47,032	155,204	47,032		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	1,223,534	370,768	1,223,534	370,768		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		67,602		85,001		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		412		412		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		2,366,762		2,695,974		IDEML Annual Report, Table 17. Includes LFs, TSs, and incinerators.
Total Disposed		6,727,572		12,337,613		
Population Disposal Rate (pcd)		5,919,587	6.2	5,919,587	11.4	
Michigan Data		MSW Only		All Waste		
		1997 (cu yds)	1997 (tons)	1997 (cu yds)	1997 (tons)	
Disposed in Michigan						
Landfilled	39,074,692	11,840,816	43,669,640	13,233,224		MDEQ Annual Report, Table 1. Includes LFs.
Incinerated		1,232,515		1,232,515		MDEQ data.
Plus, Exports						
Illinois	4,011	1,215	4,011	1,215		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		26,181		26,402		IDEML Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators.
Ohio		46,083		46,083		OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		7,108		7,108		WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	5,596,540	1,695,921	5,581,452	1,691,349		MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		11,457,997		12,855,198		
Population Disposal Rate (pcd)		9,745,500	6.4	9,745,500	7.2	
Wisconsin Data		MSW Only		All Waste		
		1997 (cu yds)	1997 (tons)	1997 (cu yds)	1997 (tons)	
Landfilled in Wisconsin			5,094,214		8,665,711	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	87,184	26,419	87,184	26,419		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		518		700		IDEML Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators.
Michigan	543,847	164,802	543,847	164,802		MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0		49		OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		1,164,417		1,168,355		WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,121,536		7,689,326		
Population Disposal Rate (pcd)		5,222,103	4.3	5,222,103	8.1	

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION  
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)  
YEAR 1996

Illinois Data		MSW Only		All Waste		Notes:
		1996 (cu yds)	1996 (tons)	1996 (cu yds)	1996 (tons)	
Disposed in Illinois						
Landfilled	43,827,496	12,302,455	0	46,134,206	13,980,062	IEPA Annual Report. Reflects est. special waste of 5% by volume and 12% by weight.
Incinerated	0	0	0	0	0	IEPA Annual Report.
Plus, Exports						
Indiana		1,604,733			1,690,228	IDEPA Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators.
Michigan	578,503	175,304		578,503	175,304	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		20			877	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		465,329			465,329	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	4,197,851	1,178,345		4,418,791	1,339,028	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		13,369,496			14,972,772	
Population		12,023,817			12,023,817	
Disposal Rate (pcd)		6.1			6.8	
Indiana Data		MSW Only		All Waste		
		1996 (cu yds)	1996 (tons)	1996 (cu yds)	1996 (tons)	
Disposed in Indiana						
Landfilled		6,992,701			12,754,111	IDEPA Annual Report, Table 5. LFs only. TSs excluded to avoid double counting.
Incinerated		687,870			710,652	IDEPA Annual Report, Table 13.
Plus, Exports						
Illinois	176,883	53,601		176,883	53,601	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Michigan	982,328	297,675		982,328	297,675	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		80,476			80,476	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		8			8	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports		1,744,106			1,942,068	IDEPA Annual Report, Table 17. Includes LFs, TSs, and incinerators.
Total Disposed		6,368,225			11,954,455	
Population		5,865,955			5,865,955	
Disposal Rate (pcd)		5.9			11.2	
Michigan Data		MSW Only		All Waste		
		1996 (cu yds)	1996 (tons)	1996 (cu yds)	1996 (tons)	
Disposed in Michigan						
Landfilled	37,576,777	11,386,902		42,282,403	12,812,849	MDEQ Annual Report, Table 1. Includes LFs.
Incinerated		1,998,025			1,998,025	MDEQ data.
Plus, Exports						
Illinois	280	85		280	85	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		15,014			15,236	IDEPA Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators.
Ohio		47,560			47,560	OEPA Annual Summary Import/Export Data. Includes LFs.
Wisconsin		9,949			9,949	WDNR Annual Spreadsheet. Includes LFs.
Minus, Imports	5,491,993	1,664,240		5,689,767	1,724,172	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		11,793,295			13,159,532	
Population		9,681,185			9,681,185	
Disposal Rate (pcd)		6.7			7.4	
Wisconsin Data		MSW Only		All Waste		
		1996 (cu yds)	1996 (tons)	1996 (cu yds)	1996 (tons)	
Landfilled in Wisconsin						
		4,344,421			7,932,520	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	82,343	24,952		82,343	24,952	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators.
Indiana		211			220	IDEPA Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators.
Michigan	327,616	99,278		500,475	151,659	MDEQ Annual Report, Tables 4 & 5. Includes LFs.
Ohio		0			0	OEPA Annual Summary Import/Export Data. Includes LFs.
Minus, Imports		655,558			655,558	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		3,813,304			7,453,793	
Population		5,174,913			5,174,913	
Disposal Rate (pcd)		4.0			7.9	

Notes:

1. Indiana landfills report the following types of waste:  
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.  
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:  
Type II, General Type III, Type III Mixed, and Type III Separated.  
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.  
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:  
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,  
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,  
Contaminated Soil - Daily Cover.  
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.



VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E-3-8 - STATE POPULATION DATA

State	1990										2000										
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	1990-2000	1990-2008	
Illinois	11,430,602	11,529,471	11,628,340	11,727,209	11,826,078	11,924,948	12,023,817	12,122,686	12,221,555	12,320,424	12,419,293	12,518,162	12,617,031	12,715,900	12,814,769	12,913,639	13,012,508	13,111,377	13,210,246	986,691	8.6%
Indiana	5,544,159	5,587,792	5,651,424	5,705,057	5,758,689	5,812,322	5,865,985	5,919,587	5,973,220	6,026,852	6,080,485	6,134,118	6,187,750	6,241,383	6,295,015	6,348,848	6,402,281	6,455,913	6,509,546	536,326	9.7%
Michigan	9,295,297	9,359,612	9,423,926	9,498,241	9,552,556	9,616,371	9,681,185	9,745,500	9,809,815	9,874,129	9,938,444	10,002,759	10,067,073	10,131,388	10,195,703	10,260,018	10,324,332	10,388,647	10,452,962	643,147	6.9%
Wisconsin	4,891,769	4,938,360	4,986,150	5,033,341	5,080,531	5,127,722	5,174,913	5,222,103	5,269,294	5,316,484	5,363,675	5,410,866	5,458,056	5,505,247	5,552,437	5,599,628	5,646,819	5,694,009	5,741,200	471,906	9.6%
Total	31,161,827	31,425,635	31,689,840	31,953,848	32,217,854	32,481,863	32,745,870	33,009,876	33,273,884	33,537,889	33,801,897	34,065,905	34,329,910	34,583,918	34,557,924	35,121,933	35,385,940	35,649,946	35,913,954	2,640,070	8.5%

Source:

1. Years 1990 and 2000 = U.S. Census Bureau.

2. All other years interpolated/extrapolated between 1990 and 2000.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS Date: 1/2010

Checked By: PPK Date: 1/2010

**TITLE: WASTE DISPOSAL RATES****Calculation of Waste Disposal Rates for Rural and Downstate Illinois Counties**

The previous analyses have resulted in the calculation of two disposal rates in Illinois: a statewide disposal rate and a disposal rate for the Chicago metropolitan area. Using these calculated rates, the disposal rate for rural and downstate counties was determined by the following steps.

- Step 1. Calculate the amount of waste disposed by the state as a whole by multiplying the per capita disposal rate by the population of the state (see Table E.3-8).
- Step 2. Calculate the amount of waste disposed by the Chicago metropolitan area by multiplying the per capita disposal rate by the population of the region (see Table E.3-5).
- Step 3. Determine the population in the rural and downstate counties by subtracting the population of the Chicago metropolitan area from the total population of the State.
- Step 4. Subtract the amount of waste disposed by the Chicago metropolitan area from the amount of waste disposed by the state as a whole to determine the amount of waste disposed by rural and downstate counties.
- Step 5. Divide the amount of waste disposed by the rural and downstate counties (Step 4) by the population of the rural and downstate counties (Step 3) to calculate the per capita waste disposal rate for the rural and downstate counties.

As summarized in Tables A-9 and A-10, the analysis shows that rural and downstate counties disposed of 5.5 to 7.8 pounds per capita per day of total waste and 4.6 to 6.9 pounds per capita per day of municipal waste between 1996 and 2008.

For the service area waste projections presented in Appendix E.2, the Chicago metropolitan area total waste disposal rate for 2008 was utilized for Cook and Lake Counties. The Wisconsin statewide total waste disposal rate for 2008 was utilized for Kenosha County. Although disposal rates generally were higher than the 2008 rates during the period 1996-2008, the per capita disposal rates utilized in projecting future disposal quantities were assumed to remain constant at 2008 levels. Hence, the projections of future disposal quantities in Appendix E.2 are conservatively low.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-9 - TOTAL WASTE DISPOSAL RATE CALCULATION FOR REMAINDER OF ILLINOIS

	2008		2007		2006	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	13,210,246	7.0	13,111,377	7.5	13,012,508	7.8
Metro-Area	9,229,139	6.8	9,180,131	7.6	8,761,746	8.2
=====	=====	=====	=====	=====	=====	=====
Remainder of State	3,981,107	7.5	3,931,246	7.3	4,250,762	7.0
	2005		2004		2003	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,913,639	7.8	12,814,769	7.8	12,715,900	7.6
Metro-Area	8,677,461	8.1	8,423,937	8.3	8,340,883	7.5
=====	=====	=====	=====	=====	=====	=====
Remainder of State	4,236,178	7.2	4,390,832	6.8	4,375,017	7.8
	2002		2001		2000	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,617,031	7.7	12,518,162	7.9	12,419,293	7.4
Metro-Area	8,257,830	8.0	8,174,775	8.3	8,091,720	8.0
=====	=====	=====	=====	=====	=====	=====
Remainder of State	4,359,201	7.1	4,343,387	7.1	4,327,573	6.3
	1999		1998		1997	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,320,424	7.7	12,221,555	7.3	12,122,686	6.7
Metro-Area	8,008,666	7.8	7,925,610	7.5	7,842,558	6.6
=====	=====	=====	=====	=====	=====	=====
Remainder of State	4,311,758	7.5	4,295,945	6.9	4,280,128	6.9
	1996					
	<u>Population</u>	<u>Disposal Rate (pcd)</u>				
Illinois	12,023,817	6.8				
Metro-Area	7,759,503	7.5				
=====	=====	=====				
Remainder of State	4,264,314	5.5				

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-10 - MUNICIPAL WASTE DISPOSAL RATE CALCULATION FOR REMAINDER OF ILLINOIS

	2008		2007		2006	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	13,210,246	6.2	13,111,377	7.0	13,012,508	7.1
Metro-Area	9,229,139	6.3	9,180,131	7.2	8,761,746	7.6
=====	=====	=====	=====	=====	=====	=====
Remainder of State	3,981,107	6.0	3,931,246	6.5	4,250,762	6.1
	2005		2004		2003	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,913,639	6.9	12,814,769	6.9	12,715,900	6.9
Metro-Area	8,677,461	7.4	8,423,937	7.7	8,340,883	6.9
=====	=====	=====	=====	=====	=====	=====
Remainder of State	4,236,178	5.9	4,390,832	5.4	4,375,017	6.9
	2002		2001		2000	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,617,031	6.8	12,518,162	7.2	12,419,293	6.7
Metro-Area	8,257,830	7.4	8,174,775	7.7	8,091,720	7.6
=====	=====	=====	=====	=====	=====	=====
Remainder of State	4,359,201	5.7	4,343,387	6.3	4,327,573	5.0
	1999		1998		1997	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,320,424	6.9	12,221,555	6.6	12,122,686	6.0
Metro-Area	8,008,666	7.4	7,925,610	7.3	7,842,558	6.4
=====	=====	=====	=====	=====	=====	=====
Remainder of State	4,311,758	6.0	4,295,945	5.3	4,280,128	5.3
	1996					
	<u>Population</u>	<u>Disposal Rate (pcd)</u>				
Illinois	12,023,817	6.1				
Metro-Area	7,759,503	6.9				
=====	=====	=====				
Remainder of State	4,264,314	4.6				



**Client:** Veolia ES Zion Landfill, Inc.

**Project:** Site 2 East Expansion

**Proj. #:** 122150

**Calculated By:** CMS **Date:** 1/2010

**Checked By:** PPK **Date:** 1/2010

**TITLE: WASTE DISPOSAL RATES**

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**Disposal Rate Discussion**

The methodology employed above utilizes recent landfill disposal data to calculate per capita disposal rates, and represents the most current information on disposal rates. Although waste generation, recycling and disposal rates were estimated in solid waste management plans for counties in the service area, most of those plans were prepared in the late 1980s and early 1990s, and the information contained in them has become dated. Although five-year updates to the plans have subsequently been prepared, in most cases the updates did not include a comprehensive evaluation of current disposal rates. The IEPA has acknowledged this fact in its annual landfill reports:

*The waste generation data reported by local recycling coordinators might be 10 to 15 years out-of-date, and is based upon 1990 (or earlier) population figures. (IEPA, 2003, p.8)*

*Waste generation and recycling figures were prepared in many cases during the solid waste planning process several years ago. In many cases, no new research has been done since then. (IEPA, 2002(b), p. 8)*

Most landfills have been equipped with scales, which allows accurate tracking of the amounts of waste disposed in landfills. Moreover, since landfills typically pay local and state surcharges and host fees based on the amount of waste accepted, it is unlikely that landfills would overstate the amount of waste received. For these reasons, it is believed that the per capita disposal rates derived in the preceding analysis represent the most current, accurate evaluation of waste disposal quantities.