

Appendix H
Compliance Report and Plan

Compliance Report and Plan

The Steelfield Road Landfill has been in operation as an ash monofill site since 1987. Under agreement with the Florida Department of Environmental Protection (FDEP), the site was authorized to dispose of 2,500 tons of unprocessed MSW per year with up to 5,500 tons in one of every five years without the need for a Title V air operating permit, as shown in **Attachment 1**.¹

According to historical waste records, these levels were first exceeded in 1999 when approximately 9,200 tons of MSW were disposed (**see Appendix I**). The landfill will be brought into compliance with applicable regulations including Title V and Emissions Guidelines (EG) 40 CFR 60 Subpart Cc through the following actions:

Action	Milestone	Regulatory Citation
Initial Design Capacity Report (Attachment 2)	Submitted concurrently with Title V air operating permit application.	§60.757(a)(1) §60.757(a)(2)
Initial NMOC Emission Rate Report (Attachment 3)	Submitted concurrently with Title V air operating permit application.	§60.757(b)

¹ Letter from Ed K. Middleswart, P.E. (FDEP) to William G. Hudson (Bay County Public Utilities) dated August 14, 1998.

Attachment 1 August 14, 1998 Letter from FDEP



Department of Environmental Protection

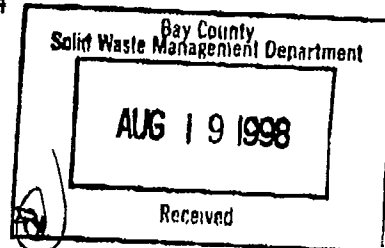
Lawton Chiles
Governor

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794

Virginia B. Wetherell
Secretary

August 14, 1998

William G. Hudson
Manager of Solid Waste Division
Bay County Public Utilities
3400 Transmitter Rd
Panama City FL 32404



Dear Mr. Hudson:

This is in response to a letter dated July 16, 1998, from your consultant, Mr. Darwish El-Hajji of CDM, confirming a telephone conversation between him and our Owen Mancarella. The discussion centered on the question of whether your Steelfield Road Landfill facility required a Title V Operating Permit.

Based on the information that was provided previously which included the historical quantities of unprocessed municipal solid waste (MSW) disposed and estimates for the non methane organic compound (NMOC) emissions for the life of the facility, and in conjunction with your renewed solid waste permit which prohibits the disposal of unprocessed MSW, the Department has determined that your facility is not required to have a Title V air operating permit for purposes of 40 CFR 60 Subpart Cc (Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills). This exemption will remain valid under the condition that the facility may not dispose (with appropriate Solid Waste Permitting Authority approval) of more than 2500 tons of unprocessed MSW a year with up to 5,500 tons in one of every five years for the active life of the landfill.

This Determination will be kept on file as a public record and may be revoked if the basis for the exemption is determined to be materially incorrect. If you have any questions, please call Andy Allen of this office at (850) 595-8364.

Sincerely,

Ed K. Middleswart, P.E.
Air Program Administrator

EKM:omc

cc: Darwish El-Hajji, P.E., Camp Dresser & McKee, Inc.
DEP Northwest District Solid Waste Program

30/98
copy: SC-STC
SC-CBU

Attachment 2 Initial Design Capacity Report



BAY COUNTY UTILITY SERVICES DEPARTMENT
3410 TRANSMITTER ROAD
PANAMA CITY, FL 32404
OFC: 850-872-4785 FAX: 850-872-4805

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May 2, 2006

Ms. Trina Vielhauer
Bureau Chief – Bureau of Air Regulation (BAR)
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

**Subject: Initial Design Capacity Report
(40 CFR Part 60 Subpart WWW)
Bay County Steelfield Road Landfill Site
Bay County Utility Services Department
Panama City, Florida 32404**

Dear Ms. Vielhauer:

Pursuant to 40 CFR §60.757(a), Bay County Utility Services Department is submitting a design capacity report for the Steelfield Road Landfill Site located on Steelfield Road, approximately 3 miles west of Highway 79, Bay County, Florida. The maximum design capacity of the landfill is 5.95 million Mg. A plot plan of the landfill (**Attachment 1**), providing the size and location of the landfill, and the initial design capacity report form (**Attachment 2**) is enclosed.

If you have questions or need additional information, please do not hesitate to contact me at (850) 784-4028.

Sincerely,

Jamie Jones,
Interim Utility Services Director

POST OFFICE BOX 1818
PANAMA CITY, FL 32402

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EDWIN L. SMITH
COUNTY MANAGER

cc: Ms. Sandra Veazey
160 Governmental Center
Pensacola, FL 32502

Mr. Tony R. St. Clair, P.E., QEP
Senior Project Manager
Camp Dresser & McKee Inc. (CDM)
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Houston, TX 77056

Mr. Marc C. Wallace
Senior Environmental Scientist, QEP
Camp Dresser & McKee Inc.
One Cambridge Place, 50 Hampshire Street
Cambridge, MA 02139

US EPA Region 4 Office
San Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303-3104

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Attachment 1 Plot Plan

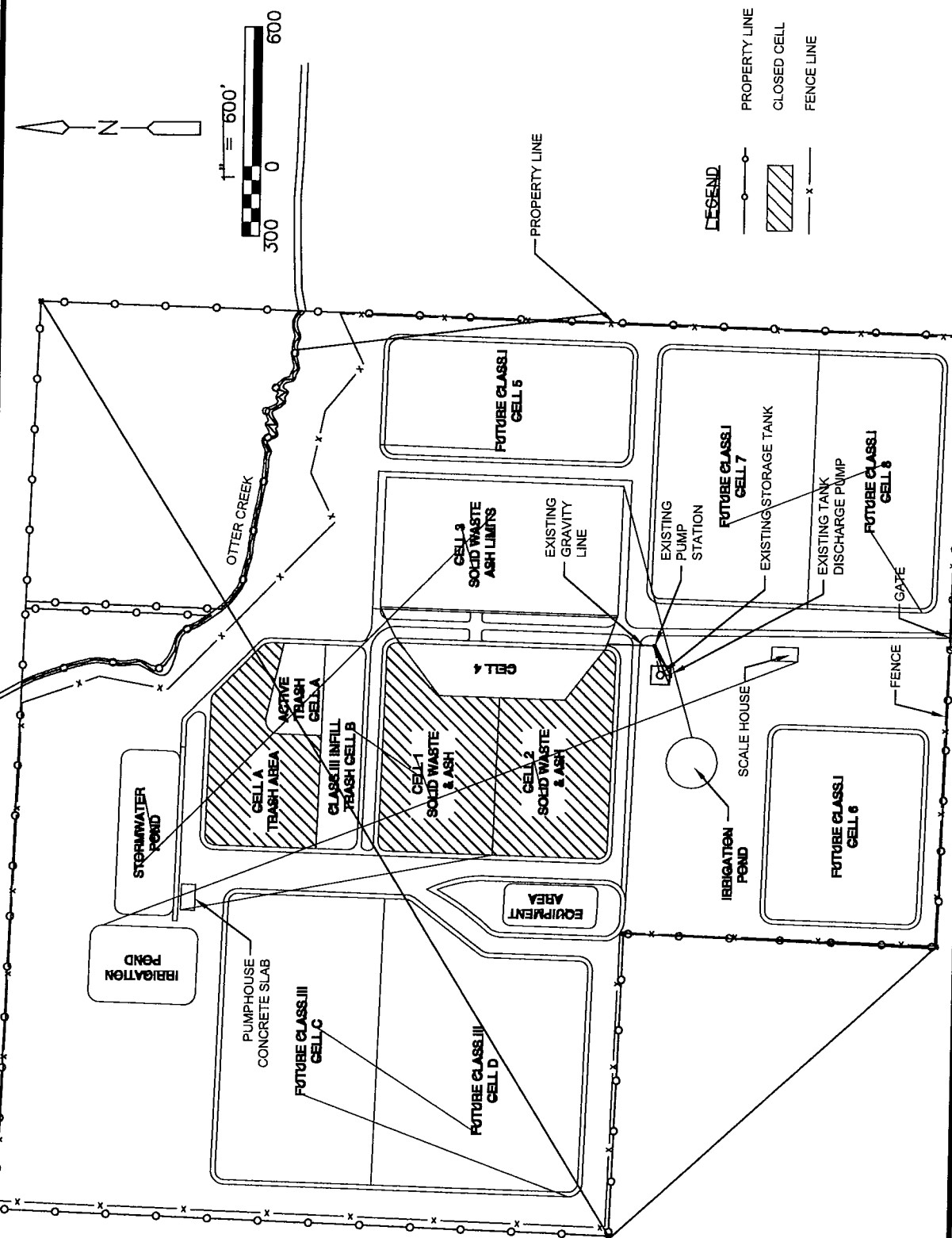


Figure 1-2
Site Features Map
Steelfield Road Landfill
West Bay, Bay County, Florida

Attachment 2

Initial Design Capacity Report Form

INITIAL DESIGN CAPACITY REPORT FORM

(Please Print or Type)

This form fulfills the requirements of the Initial Design Capacity Report for the municipal solid waste landfills new source performance standards and emission guidelines promulgated on March 12, 1996 (61 FR 9905) 40 CFR 60, subparts WWW and Cc. All new landfills subject to the regulations must submit this report. For new landfills, this report also fulfills the requirements of the notification of the date construction is commenced as required under 40 CFR 60.7(a)(1).

This form must be completed and submitted to the implementing agency within the following timeframe:

- on or before June 10, 1996 for landfills that commenced construction, modification, or reconstruction on or after May 30, 1991, but before March 12, 1996.
- within 90 days after the date of commenced construction, modification, or reconstruction for landfills that commenced construction, modification, or reconstruction on or after March 12, 1996. [Note: The initial design capacity report fulfills the requirements of the notification of the date construction is commenced as required under §60.7(a)(1) of the part 60 General Provisions.]

I. IDENTIFYING INFORMATION

1. Name of person completing form Mr. Jamie Jones
Telephone number (850) 872-4785
2. Person's position Director of Utilities
3. Name of landfill Bay County Steelfield Road Landfill
4. Address of landfill Approximately 3 miles west of Highway 79, Panama City,
Bay County, Florida 32413
5. Name of landfill owner Bay County Utility Services Department
6. Address of landfill owner 3410 Transmitter Road, Panama City, Florida 32404
7. Name of landfill operator Bay County Utility Services Department
8. Address of landfill operator 3410 Transmitter Road, Panama City, Florida 32404

9. Is landfill new or existing?

☐ new (began construction, reconstruction, or modification on or after May 30, 1991)

☒ existing (began construction, reconstruction, or modification before May 30, 1991; and has accepted waste after November 8, 1987 or has additional capacity available for future waste deposition)

II. DATES

10. Date construction or operating permit was issued August 26, 1987

11. Date landfill began construction, modification, or reconstruction July, 1987

12. Date landfill first accepted waste October 1, 1987

13. Date this form is submitted April 2006

III. DESIGN CAPACITY INFORMATION

14. Maximum design capacity of landfill in Mg or m³ 5.95 million Mg

(To calculate Mg, multiply tons by 0.907. To calculate m³, multiply yd by 0.7646)

A. If the landfill has a State, county or tribal agency construction or RCRA permit stating the maximum design capacity, attach a copy of the permit to this form. If there is any waste in place not accounted for in the most recent permit, include this amount in the design capacity and attach documentation.

B. If maximum design capacity is NOT specified in a permit, attach design capacity calculations, and provide documentation of the relevant parameters used to calculate design capacity (for example, landfill horizontal dimensions, depth of landfill, waste acceptance rates and/or other parameters that might be used to calculate design capacity).

15. If design capacity is converted from mass to volume or from volume to mass, attach the calculation, including the site-specific density.

Attachment 3 Initial NMOC Emission Rate Report



BAY COUNTY UTILITY SERVICES DEPARTMENT
3410 TRANSMITTER ROAD
PANAMA CITY, FL 32404
OFC: 850-872-4785 FAX: 850-872-4805

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May 2, 2006

Ms. Trina Vielhauer
Bureau Chief – Bureau of Air Regulation (BAR)
Division of Air Resource Management
2600 Blair Stone Road MS 5500
Tallahassee, Florida 32399-2400

**Subject: Initial NMOC Emission Rate Report
(40 CFR Part 60 Subpart WWW)
Bay County Steelfield Road Landfill Site
Bay County Utility Services Department
Panama City, Florida 32404**

POST OFFICE BOX 1818
PANAMA CITY, FL 32402

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DISTRICT V

EDWIN L. SMITH
COUNTY MANAGER

Dear Ms. Vielhauer:

Pursuant to 40 CFR §60.757(b), Bay County Utility Services Department is submitting the initial NMOC emission rate report. The estimated NMOC emission rate for year 2006 is 10.16 Mg/yr, which is below the 50 Mg/yr threshold for submitting a design plan for a gas collection and control system. This estimate was calculated based on the Tier I (US EPA LandGEM (Version 3.02) Model) procedures in the regulations (40 CFR 60 Subpart WWW). A copy of the calculations is enclosed (**Attachment 1**).

If you have questions or need additional information, please do not hesitate to contact me at (850) 784-4028.

Sincerely,

Jamie Jones,
Interim Utility Services Director

cc: Ms. Sandra Veazey
160 Governmental Center
Pensacola, FL 32502

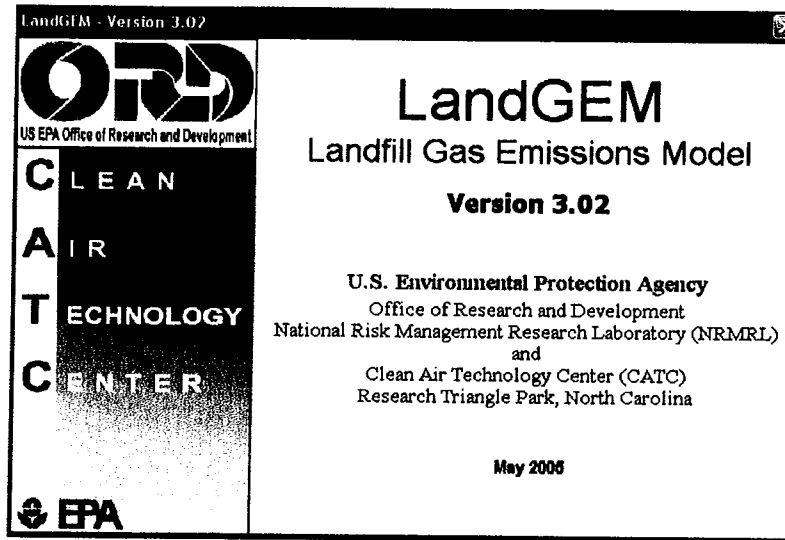
Mr. Tony R. St. Clair, P.E., QEP
Senior Project Manager
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3050 Post Oak Boulevard, Suite 300
Houston, TX 77056

Mr. Marc C. Wallace
Senior Environmental Scientist, QEP
Camp Dresser & McKee Inc.
One Cambridge Place, 50 Hampshire Street
Cambridge, MA 02139

US EPA Region 4 Office
San Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303-3104

Files

Attachment 1 LandGEM NMOC Emission Rate Calculations



Summary Report

Landfill Name or Identifier: Bay County Steelfield Rd.Landfill

Date: Friday, March 31, 2006

Description/Comments:

This calculation sheet uses Clean Air Act (CAA) factors to determine Emissions Guidelines (40 CFR Subpart Cc) applicability based on Tier 1 calculations. See spreadsheet entitled Emissions (AP-42) for permitting purposes.

About LandGEM:

First-Order Decomposition Rate Equation:

$$Q_{CH_4} = \sum_{i=1}^n \sum_{j=0.1}^1 k L_o \left(\frac{M_i}{10} \right) e^{-kt_{ij}}$$

Where,

Q_{CH_4} = annual methane generation in the year of the calculation ($m^3/year$)

i = 1-year time increment

n = (year of the calculation) - (initial year of waste acceptance)

j = 0.1-year time increment

k = methane generation rate ($year^{-1}$)

L_o = potential methane generation capacity (m^3/Mg)

M_i = mass of waste accepted in the i^{th} year (Mg)

t_{ij} = age of the j^{th} section of waste mass M_i accepted in the i^{th} year (decimal years, e.g., 3.2 years)

LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfilled waste in municipal solid waste (MSW) landfills. The software provides a relatively simple approach to estimating landfill gas emissions. Model defaults are based on empirical data from U.S. landfills. Field test data can also be used in place of model defaults when available. Further guidance on EPA test methods, Clean Air Act (CAA) regulations, and other guidance regarding landfill gas emissions and control technology requirements can be found at <http://www.epa.gov/ttnatw01/landfill/landflpg.html>.

LandGEM is considered a screening tool — the better the input data, the better the estimates. Often, there are limitations with the available data regarding waste quantity and composition, variation in design and operating practices over time, and changes occurring over time that impact the emissions potential. Changes to landfill operation, such as operating under wet conditions through leachate recirculation or other liquid additions, will result in generating more gas at a faster rate. Defaults for estimating emissions for this type of operation are being developed to include in LandGEM along with defaults for conventional landfills (no leachate or liquid additions) for developing emission inventories and determining CAA applicability. Refer to the Web site identified above for future updates.

Input Review**LANDFILL CHARACTERISTICS**

Landfill Open Year	1987	
Landfill Closure Year (with 80-year limit)	2034	
Actual Closure Year (without limit)	2034	
Have Model Calculate Closure Year?	Yes	
Waste Design Capacity	6,540,000	<i>short tons</i>

MODEL PARAMETERS

Methane Generation Rate, k	0.050	<i>year⁻¹</i>
Potential Methane Generation Capacity, L ₀	170	<i>m³/Mg</i>
NMOC Concentration	4,000	<i>ppmv as hexane</i>
Methane Content	50	<i>% by volume</i>

GASES / POLLUTANTS SELECTED

Gas / Pollutant #1:	Total landfill gas
Gas / Pollutant #2:	Methane
Gas / Pollutant #3:	Carbon dioxide
Gas / Pollutant #4:	NMOC

WASTE ACCEPTANCE RATES

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
1987	0	0	0	0
1988	2,194	2,413	0	0
1989	3,124	3,437	2,194	2,413
1990	3,046	3,351	5,318	5,850
1991	2,562	2,819	8,365	9,201
1992	2,278	2,505	10,927	12,020
1993	4,575	5,033	13,204	14,525
1994	2,049	2,254	17,780	19,558
1995	6,049	6,654	19,829	21,812
1996	3,414	3,755	25,878	28,466
1997	4,833	5,316	29,292	32,221
1998	4,593	5,053	34,125	37,537
1999	8,374	9,212	38,718	42,590
2000	5,601	6,161	47,093	51,802
2001	1,223	1,345	52,694	57,963
2002	4,072	4,479	53,917	59,308
2003	1,823	2,005	57,988	63,787
2004	935	1,029	59,812	65,793
2005	2,767	3,044	60,747	66,822
2006	22,727	25,000	63,514	69,866
2007	145,718	160,290	86,241	94,866
2008	149,725	164,698	231,960	255,156
2009	153,843	169,227	381,685	419,854
2010	158,074	173,881	535,528	589,081
2011	162,421	178,663	693,602	762,962
2012	166,887	183,576	856,022	941,624
2013	171,477	188,624	1,022,909	1,125,200
2014	176,192	193,811	1,194,386	1,313,824
2015	181,037	199,141	1,370,578	1,507,636
2016	186,016	204,618	1,551,615	1,706,777
2017	191,131	210,245	1,737,631	1,911,394
2018	196,388	216,026	1,928,763	2,121,639
2019	201,788	221,967	2,125,150	2,337,665
2020	207,337	228,071	2,326,938	2,559,632
2021	213,039	234,343	2,534,276	2,787,703
2022	218,898	240,787	2,747,315	3,022,046
2023	224,917	247,409	2,966,213	3,262,834
2024	231,103	254,213	3,191,130	3,510,243
2025	237,458	261,204	3,422,233	3,764,456
2026	243,988	268,387	3,659,691	4,025,660

WASTE ACCEPTANCE RATES (Continued)

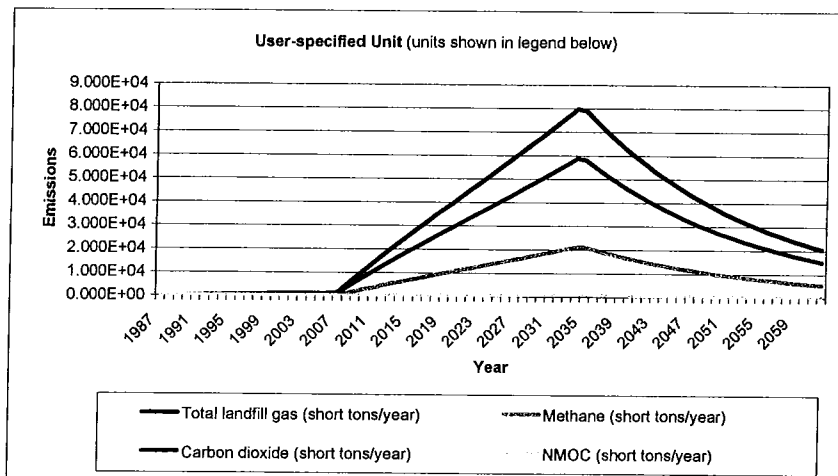
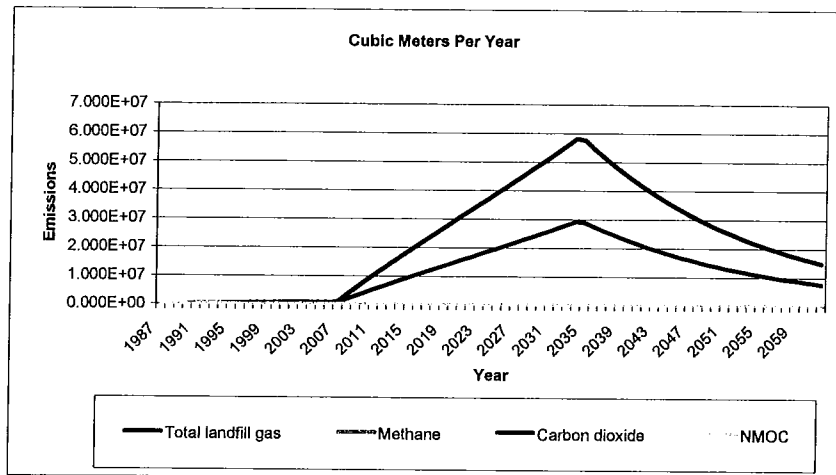
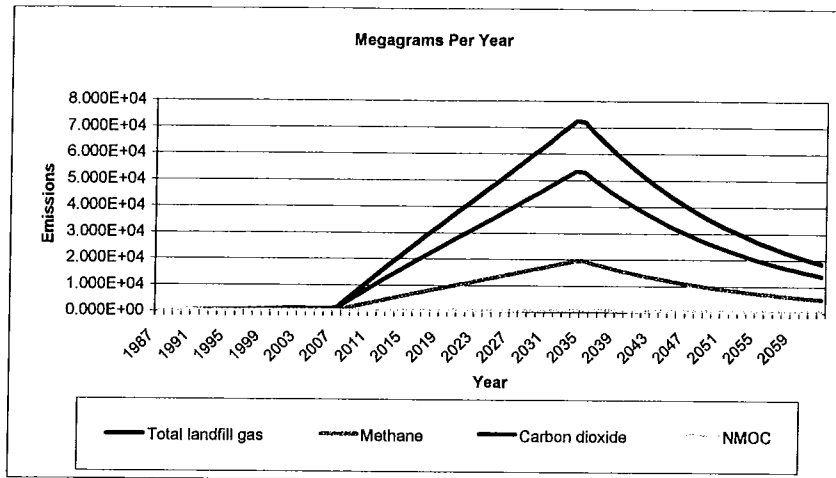
Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
2027	250,698	275,767	3,903,679	4,294,046
2028	257,592	283,351	4,154,376	4,569,814
2029	264,676	291,143	4,411,968	4,853,165
2030	271,954	299,150	4,676,644	5,144,308
2031	279,433	307,376	4,948,598	5,443,458
2032	287,117	315,829	5,228,031	5,750,834
2033	295,013	324,514	5,515,148	6,066,663
2034	135,293	148,822	5,810,162	6,391,178
2035	0	0	5,945,455	6,540,000
2036	0	0	5,945,455	6,540,000
2037	0	0	5,945,455	6,540,000
2038	0	0	5,945,455	6,540,000
2039	0	0	5,945,455	6,540,000
2040	0	0	5,945,455	6,540,000
2041	0	0	5,945,455	6,540,000
2042	0	0	5,945,455	6,540,000
2043	0	0	5,945,455	6,540,000
2044	0	0	5,945,455	6,540,000
2045	0	0	5,945,455	6,540,000
2046	0	0	5,945,455	6,540,000
2047	0	0	5,945,455	6,540,000
2048	0	0	5,945,455	6,540,000
2049	0	0	5,945,455	6,540,000
2050	0	0	5,945,455	6,540,000
2051	0	0	5,945,455	6,540,000
2052	0	0	5,945,455	6,540,000
2053	0	0	5,945,455	6,540,000
2054	0	0	5,945,455	6,540,000
2055	0	0	5,945,455	6,540,000
2056	0	0	5,945,455	6,540,000
2057	0	0	5,945,455	6,540,000
2058	0	0	5,945,455	6,540,000
2059	0	0	5,945,455	6,540,000
2060	0	0	5,945,455	6,540,000
2061	0	0	5,945,455	6,540,000
2062	0	0	5,945,455	6,540,000
2063	0	0	5,945,455	6,540,000
2064	0	0	5,945,455	6,540,000
2065	0	0	5,945,455	6,540,000
2066	0	0	5,945,455	6,540,000

Pollutant Parameters

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Gases	Total landfill gas		0.00		
	Methane		16.04		
	Carbon dioxide		44.01		
	NMOC	4,000	86.18		
Pollutants	1,1,1-Trichloroethane (methyl chloroform) - HAP	0.48	133.41		
	1,1,2,2-Tetrachloroethane - HAP/VOC	1.1	167.85		
	1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.4	98.97		
	1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	0.20	96.94		
	1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	0.41	98.96		
	1,2-Dichloropropane (propylene dichloride) - HAP/VOC	0.18	112.99		
	2-Propanol (isopropyl alcohol) - VOC	50	60.11		
	Acetone	7.0	58.08		
	Acrylonitrile - HAP/VOC	6.3	53.06		
	Benzene - No or Unknown Co-disposal - HAP/VOC	1.9	78.11		
	Benzene - Co-disposal - HAP/VOC	11	78.11		
	Bromodichloromethane - VOC	3.1	163.83		
	Butane - VOC	5.0	58.12		
	Carbon disulfide - HAP/VOC	0.58	76.13		
	Carbon monoxide	140	28.01		
	Carbon tetrachloride - HAP/VOC	4.0E-03	153.84		
	Carbonyl sulfide - HAP/VOC	0.49	60.07		
	Chlorobenzene - HAP/VOC	0.25	112.56		
	Chlorodifluoromethane	1.3	86.47		
	Chloroethane (ethyl chloride) - HAP/VOC	1.3	64.52		
	Chloroform - HAP/VOC	0.03	119.39		
	Chloromethane - VOC	1.2	50.49		
	Dichlorobenzene - (HAP for para isomer/VOC)	0.21	147		
	Dichlorodifluoromethane	16	120.91		
	Dichlorofluoromethane - VOC	2.6	102.92		
	Dichloromethane (methylene chloride) - HAP	14	84.94		
	Dimethyl sulfide (methyl sulfide) - VOC	7.8	62.13		
	Ethane	890	30.07		
	Ethanol - VOC	27	46.08		

Pollutant Parameters (Continued)

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Pollutants	Ethyl mercaptan (ethanethiol) - VOC	2.3	62.13		
	Ethylbenzene - HAP/VOC	4.6	106.16		
	Ethylene dibromide - HAP/VOC	1.0E-03	187.88		
	Fluorotrichloromethane - VOC	0.76	137.38		
	Hexane - HAP/VOC	6.6	86.18		
	Hydrogen sulfide	36	34.08		
	Mercury (total) - HAP	2.9E-04	200.61		
	Methyl ethyl ketone - HAP/VOC	7.1	72.11		
	Methyl isobutyl ketone - HAP/VOC	1.9	100.16		
	Methyl mercaptan - VOC	2.5	48.11		
	Pentane - VOC	3.3	72.15		
	Perchloroethylene (tetrachloroethylene) - HAP	3.7	165.83		
	Propane - VOC	11	44.09		
	t-1,2-Dichloroethene - VOC	2.8	96.94		
	Toluene - No or Unknown Co-disposal - HAP/VOC	39	92.13		
	Toluene - Co-disposal - HAP/VOC	170	92.13		
	Trichloroethylene (trichloroethene) - HAP/VOC	2.8	131.40		
	Vinyl chloride - HAP/VOC	7.3	62.50		
	Xylenes - HAP/VOC	12	106.16		

Graphs

Results

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(short tons/year)	(Mg/year)	(m ³ /year)	(short tons/year)
1987	0	0	0	0	0	0
1988	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1989	4.555E+01	3.647E+04	5.010E+01	1.217E+01	1.824E+04	1.338E+01
1990	1.082E+02	8.663E+04	1.190E+02	2.890E+01	4.331E+04	3.179E+01
1991	1.661E+02	1.330E+05	1.828E+02	4.438E+01	6.652E+04	4.882E+01
1992	2.112E+02	1.692E+05	2.324E+02	5.642E+01	8.458E+04	6.207E+01
1993	2.482E+02	1.988E+05	2.730E+02	6.630E+01	9.938E+04	7.293E+01
1994	3.311E+02	2.651E+05	3.642E+02	8.844E+01	1.326E+05	9.728E+01
1995	3.575E+02	2.863E+05	3.932E+02	9.549E+01	1.431E+05	1.050E+02
1996	4.656E+02	3.729E+05	5.122E+02	1.244E+02	1.864E+05	1.368E+02
1997	5.138E+02	4.114E+05	5.652E+02	1.372E+02	2.057E+05	1.510E+02
1998	5.891E+02	4.717E+05	6.480E+02	1.573E+02	2.358E+05	1.731E+02
1999	6.557E+02	5.251E+05	7.213E+02	1.751E+02	2.625E+05	1.927E+02
2000	7.976E+02	6.387E+05	8.773E+02	2.130E+02	3.193E+05	2.343E+02
2001	8.750E+02	7.006E+05	9.624E+02	2.337E+02	3.503E+05	2.571E+02
2002	8.577E+02	6.868E+05	9.434E+02	2.291E+02	3.434E+05	2.520E+02
2003	9.004E+02	7.210E+05	9.904E+02	2.405E+02	3.605E+05	2.645E+02
2004	8.943E+02	7.161E+05	9.837E+02	2.389E+02	3.581E+05	2.628E+02
2005	8.701E+02	6.967E+05	9.571E+02	2.324E+02	3.484E+05	2.557E+02
2006	8.851E+02	7.088E+05	9.736E+02	2.364E+02	3.544E+05	2.601E+02
2007	1.314E+03	1.052E+06	1.445E+03	3.509E+02	5.260E+05	3.860E+02
2008	4.275E+03	3.423E+06	4.702E+03	1.142E+03	1.712E+06	1.256E+03
2009	7.175E+03	5.745E+06	7.892E+03	1.916E+03	2.873E+06	2.108E+03
2010	1.002E+04	8.022E+06	1.102E+04	2.676E+03	4.011E+06	2.944E+03
2011	1.281E+04	1.026E+07	1.409E+04	3.422E+03	5.129E+06	3.764E+03
2012	1.556E+04	1.246E+07	1.711E+04	4.156E+03	6.229E+06	4.571E+03
2013	1.826E+04	1.463E+07	2.009E+04	4.879E+03	7.313E+06	5.366E+03
2014	2.093E+04	1.676E+07	2.303E+04	5.591E+03	8.381E+06	6.151E+03
2015	2.357E+04	1.887E+07	2.593E+04	6.296E+03	9.437E+06	6.925E+03
2016	2.618E+04	2.096E+07	2.880E+04	6.993E+03	1.048E+07	7.692E+03
2017	2.876E+04	2.303E+07	3.164E+04	7.683E+03	1.152E+07	8.451E+03
2018	3.133E+04	2.509E+07	3.446E+04	8.368E+03	1.254E+07	9.205E+03
2019	3.388E+04	2.713E+07	3.727E+04	9.049E+03	1.356E+07	9.954E+03
2020	3.641E+04	2.916E+07	4.006E+04	9.727E+03	1.458E+07	1.070E+04
2021	3.894E+04	3.118E+07	4.284E+04	1.040E+04	1.559E+07	1.144E+04
2022	4.147E+04	3.320E+07	4.561E+04	1.108E+04	1.660E+07	1.218E+04
2023	4.399E+04	3.522E+07	4.839E+04	1.175E+04	1.761E+07	1.292E+04
2024	4.651E+04	3.724E+07	5.116E+04	1.242E+04	1.862E+07	1.367E+04
2025	4.904E+04	3.927E+07	5.395E+04	1.310E+04	1.964E+07	1.441E+04
2026	5.158E+04	4.130E+07	5.674E+04	1.378E+04	2.065E+07	1.516E+04
2027	5.413E+04	4.334E+07	5.954E+04	1.446E+04	2.167E+07	1.590E+04
2028	5.669E+04	4.540E+07	6.236E+04	1.514E+04	2.270E+07	1.666E+04
2029	5.928E+04	4.747E+07	6.520E+04	1.583E+04	2.373E+07	1.742E+04
2030	6.188E+04	4.955E+07	6.807E+04	1.653E+04	2.478E+07	1.818E+04
2031	6.451E+04	5.165E+07	7.096E+04	1.723E+04	2.583E+07	1.895E+04
2032	6.716E+04	5.378E+07	7.388E+04	1.794E+04	2.689E+07	1.973E+04
2033	6.985E+04	5.593E+07	7.683E+04	1.866E+04	2.797E+07	2.052E+04
2034	7.257E+04	5.811E+07	7.982E+04	1.938E+04	2.905E+07	2.132E+04
2035	7.183E+04	5.752E+07	7.902E+04	1.919E+04	2.876E+07	2.111E+04
2036	6.833E+04	5.472E+07	7.516E+04	1.825E+04	2.736E+07	2.008E+04

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(short tons/year)	(Mg/year)	(m ³ /year)	(short tons/year)
2037	6.500E+04	5.205E+07	7.150E+04	1.736E+04	2.602E+07	1.910E+04
2038	6.183E+04	4.951E+07	6.801E+04	1.652E+04	2.475E+07	1.817E+04
2039	5.881E+04	4.710E+07	6.469E+04	1.571E+04	2.355E+07	1.728E+04
2040	5.594E+04	4.480E+07	6.154E+04	1.494E+04	2.240E+07	1.644E+04
2041	5.322E+04	4.261E+07	5.854E+04	1.421E+04	2.131E+07	1.564E+04
2042	5.062E+04	4.054E+07	5.568E+04	1.352E+04	2.027E+07	1.487E+04
2043	4.815E+04	3.856E+07	5.297E+04	1.286E+04	1.928E+07	1.415E+04
2044	4.580E+04	3.668E+07	5.038E+04	1.223E+04	1.834E+07	1.346E+04
2045	4.357E+04	3.489E+07	4.793E+04	1.164E+04	1.744E+07	1.280E+04
2046	4.145E+04	3.319E+07	4.559E+04	1.107E+04	1.659E+07	1.218E+04
2047	3.942E+04	3.157E+07	4.337E+04	1.053E+04	1.578E+07	1.158E+04
2048	3.750E+04	3.003E+07	4.125E+04	1.002E+04	1.501E+07	1.102E+04
2049	3.567E+04	2.856E+07	3.924E+04	9.528E+03	1.428E+07	1.048E+04
2050	3.393E+04	2.717E+07	3.733E+04	9.064E+03	1.359E+07	9.970E+03
2051	3.228E+04	2.585E+07	3.551E+04	8.622E+03	1.292E+07	9.484E+03
2052	3.070E+04	2.459E+07	3.377E+04	8.201E+03	1.229E+07	9.021E+03
2053	2.921E+04	2.339E+07	3.213E+04	7.801E+03	1.169E+07	8.581E+03
2054	2.778E+04	2.225E+07	3.056E+04	7.421E+03	1.112E+07	8.163E+03
2055	2.643E+04	2.116E+07	2.907E+04	7.059E+03	1.058E+07	7.765E+03
2056	2.514E+04	2.013E+07	2.765E+04	6.715E+03	1.006E+07	7.386E+03
2057	2.391E+04	1.915E+07	2.630E+04	6.387E+03	9.574E+06	7.026E+03
2058	2.275E+04	1.821E+07	2.502E+04	6.076E+03	9.107E+06	6.683E+03
2059	2.164E+04	1.733E+07	2.380E+04	5.779E+03	8.663E+06	6.357E+03
2060	2.058E+04	1.648E+07	2.264E+04	5.497E+03	8.240E+06	6.047E+03
2061	1.958E+04	1.568E+07	2.153E+04	5.229E+03	7.838E+06	5.752E+03
2062	1.862E+04	1.491E+07	2.048E+04	4.974E+03	7.456E+06	5.472E+03
2063	1.771E+04	1.418E+07	1.949E+04	4.732E+03	7.092E+06	5.205E+03
2064	1.685E+04	1.349E+07	1.854E+04	4.501E+03	6.746E+06	4.951E+03
2065	1.603E+04	1.283E+07	1.763E+04	4.281E+03	6.417E+06	4.710E+03
2066	1.525E+04	1.221E+07	1.677E+04	4.073E+03	6.104E+06	4.480E+03
2067	1.450E+04	1.161E+07	1.595E+04	3.874E+03	5.807E+06	4.261E+03
2068	1.380E+04	1.105E+07	1.518E+04	3.685E+03	5.524E+06	4.054E+03
2069	1.312E+04	1.051E+07	1.444E+04	3.505E+03	5.254E+06	3.856E+03
2070	1.248E+04	9.996E+06	1.373E+04	3.334E+03	4.998E+06	3.668E+03
2071	1.187E+04	9.508E+06	1.306E+04	3.172E+03	4.754E+06	3.489E+03
2072	1.130E+04	9.045E+06	1.242E+04	3.017E+03	4.522E+06	3.319E+03
2073	1.074E+04	8.603E+06	1.182E+04	2.870E+03	4.302E+06	3.157E+03
2074	1.022E+04	8.184E+06	1.124E+04	2.730E+03	4.092E+06	3.003E+03
2075	9.722E+03	7.785E+06	1.069E+04	2.597E+03	3.892E+06	2.856E+03
2076	9.248E+03	7.405E+06	1.017E+04	2.470E+03	3.703E+06	2.717E+03
2077	8.797E+03	7.044E+06	9.676E+03	2.350E+03	3.522E+06	2.585E+03
2078	8.368E+03	6.700E+06	9.204E+03	2.235E+03	3.350E+06	2.459E+03
2079	7.960E+03	6.374E+06	8.755E+03	2.126E+03	3.187E+06	2.339E+03
2080	7.571E+03	6.063E+06	8.328E+03	2.022E+03	3.031E+06	2.225E+03
2081	7.202E+03	5.767E+06	7.922E+03	1.924E+03	2.884E+06	2.116E+03
2082	6.851E+03	5.486E+06	7.536E+03	1.830E+03	2.743E+06	2.013E+03
2083	6.517E+03	5.218E+06	7.168E+03	1.741E+03	2.609E+06	1.915E+03
2084	6.199E+03	4.964E+06	6.819E+03	1.656E+03	2.482E+06	1.821E+03
2085	5.897E+03	4.722E+06	6.486E+03	1.575E+03	2.361E+06	1.733E+03
2086	5.609E+03	4.491E+06	6.170E+03	1.498E+03	2.246E+06	1.648E+03
2087	5.335E+03	4.272E+06	5.869E+03	1.425E+03	2.136E+06	1.568E+03

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(short tons/year)	(Mg/year)	(m ³ /year)	(short tons/year)
2088	5.075E+03	4.064E+06	5.583E+03	1.356E+03	2.032E+06	1.491E+03
2089	4.828E+03	3.866E+06	5.310E+03	1.290E+03	1.933E+06	1.418E+03
2090	4.592E+03	3.677E+06	5.051E+03	1.227E+03	1.839E+06	1.349E+03
2091	4.368E+03	3.498E+06	4.805E+03	1.167E+03	1.749E+06	1.283E+03
2092	4.155E+03	3.327E+06	4.571E+03	1.110E+03	1.664E+06	1.221E+03
2093	3.953E+03	3.165E+06	4.348E+03	1.056E+03	1.583E+06	1.161E+03
2094	3.760E+03	3.011E+06	4.136E+03	1.004E+03	1.505E+06	1.105E+03
2095	3.576E+03	2.864E+06	3.934E+03	9.553E+02	1.432E+06	1.051E+03
2096	3.402E+03	2.724E+06	3.742E+03	9.087E+02	1.362E+06	9.996E+02
2097	3.236E+03	2.591E+06	3.560E+03	8.644E+02	1.296E+06	9.508E+02
2098	3.078E+03	2.465E+06	3.386E+03	8.222E+02	1.232E+06	9.045E+02
2099	2.928E+03	2.345E+06	3.221E+03	7.821E+02	1.172E+06	8.604E+02
2100	2.785E+03	2.230E+06	3.064E+03	7.440E+02	1.115E+06	8.184E+02
2101	2.649E+03	2.122E+06	2.914E+03	7.077E+02	1.061E+06	7.785E+02
2102	2.520E+03	2.018E+06	2.772E+03	6.732E+02	1.009E+06	7.405E+02
2103	2.397E+03	1.920E+06	2.637E+03	6.404E+02	9.598E+05	7.044E+02
2104	2.280E+03	1.826E+06	2.508E+03	6.091E+02	9.130E+05	6.700E+02
2105	2.169E+03	1.737E+06	2.386E+03	5.794E+02	8.685E+05	6.374E+02
2106	2.063E+03	1.652E+06	2.270E+03	5.512E+02	8.261E+05	6.063E+02
2107	1.963E+03	1.572E+06	2.159E+03	5.243E+02	7.859E+05	5.767E+02
2108	1.867E+03	1.495E+06	2.054E+03	4.987E+02	7.475E+05	5.486E+02
2109	1.776E+03	1.422E+06	1.954E+03	4.744E+02	7.111E+05	5.218E+02
2110	1.689E+03	1.353E+06	1.858E+03	4.513E+02	6.764E+05	4.964E+02
2111	1.607E+03	1.287E+06	1.768E+03	4.292E+02	6.434E+05	4.722E+02
2112	1.529E+03	1.224E+06	1.681E+03	4.083E+02	6.120E+05	4.491E+02
2113	1.454E+03	1.164E+06	1.599E+03	3.884E+02	5.822E+05	4.272E+02
2114	1.383E+03	1.108E+06	1.521E+03	3.695E+02	5.538E+05	4.064E+02
2115	1.316E+03	1.054E+06	1.447E+03	3.514E+02	5.268E+05	3.866E+02
2116	1.252E+03	1.002E+06	1.377E+03	3.343E+02	5.011E+05	3.677E+02
2117	1.190E+03	9.533E+05	1.310E+03	3.180E+02	4.766E+05	3.498E+02
2118	1.132E+03	9.068E+05	1.246E+03	3.025E+02	4.534E+05	3.327E+02
2119	1.077E+03	8.626E+05	1.185E+03	2.877E+02	4.313E+05	3.165E+02
2120	1.025E+03	8.205E+05	1.127E+03	2.737E+02	4.103E+05	3.011E+02
2121	9.747E+02	7.805E+05	1.072E+03	2.604E+02	3.902E+05	2.864E+02
2122	9.272E+02	7.424E+05	1.020E+03	2.477E+02	3.712E+05	2.724E+02
2123	8.819E+02	7.062E+05	9.701E+02	2.356E+02	3.531E+05	2.591E+02
2124	8.389E+02	6.718E+05	9.228E+02	2.241E+02	3.359E+05	2.465E+02
2125	7.980E+02	6.390E+05	8.778E+02	2.132E+02	3.195E+05	2.345E+02
2126	7.591E+02	6.078E+05	8.350E+02	2.028E+02	3.039E+05	2.230E+02
2127	7.221E+02	5.782E+05	7.943E+02	1.929E+02	2.891E+05	2.122E+02

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(short tons/year)	(Mg/year)	(m ³ /year)	(short tons/year)
1987	0	0	0	0	0	0
1988	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1989	3.338E+01	1.824E+04	3.672E+01	5.229E-01	1.459E+02	5.752E-01
1990	7.929E+01	4.331E+04	8.721E+01	1.242E+00	3.465E+02	1.366E+00
1991	1.218E+02	6.652E+04	1.339E+02	1.908E+00	5.322E+02	2.098E+00
1992	1.548E+02	8.458E+04	1.703E+02	2.425E+00	6.766E+02	2.668E+00
1993	1.819E+02	9.938E+04	2.001E+02	2.850E+00	7.950E+02	3.135E+00
1994	2.427E+02	1.326E+05	2.669E+02	3.801E+00	1.061E+03	4.181E+00
1995	2.620E+02	1.431E+05	2.882E+02	4.104E+00	1.145E+03	4.515E+00
1996	3.413E+02	1.864E+05	3.754E+02	5.346E+00	1.491E+03	5.881E+00
1997	3.766E+02	2.057E+05	4.142E+02	5.899E+00	1.646E+03	6.489E+00
1998	4.317E+02	2.358E+05	4.749E+02	6.763E+00	1.887E+03	7.439E+00
1999	4.806E+02	2.625E+05	5.286E+02	7.528E+00	2.100E+03	8.281E+00
2000	5.845E+02	3.193E+05	6.430E+02	9.157E+00	2.555E+03	1.007E+01
2001	6.412E+02	3.503E+05	7.054E+02	1.005E+01	2.802E+03	1.105E+01
2002	6.286E+02	3.434E+05	6.914E+02	9.847E+00	2.747E+03	1.083E+01
2003	6.599E+02	3.605E+05	7.259E+02	1.034E+01	2.884E+03	1.137E+01
2004	6.554E+02	3.581E+05	7.210E+02	1.027E+01	2.864E+03	1.129E+01
2005	6.377E+02	3.484E+05	7.015E+02	9.990E+00	2.787E+03	1.099E+01
2006	6.487E+02	3.544E+05	7.136E+02	1.016E+01	2.835E+03	1.118E+01
2007	9.628E+02	5.260E+05	1.059E+03	1.508E+01	4.208E+03	1.659E+01
2008	3.133E+03	1.712E+06	3.446E+03	4.908E+01	1.369E+04	5.399E+01
2009	5.258E+03	2.873E+06	5.784E+03	8.237E+01	2.298E+04	9.061E+01
2010	7.342E+03	4.011E+06	8.077E+03	1.150E+02	3.209E+04	1.265E+02
2011	9.389E+03	5.129E+06	1.033E+04	1.471E+02	4.103E+04	1.618E+02
2012	1.140E+04	6.229E+06	1.254E+04	1.786E+02	4.983E+04	1.965E+02
2013	1.339E+04	7.313E+06	1.472E+04	2.097E+02	5.850E+04	2.307E+02
2014	1.534E+04	8.381E+06	1.688E+04	2.403E+02	6.705E+04	2.644E+02
2015	1.727E+04	9.437E+06	1.900E+04	2.706E+02	7.549E+04	2.977E+02
2016	1.919E+04	1.048E+07	2.110E+04	3.006E+02	8.385E+04	3.306E+02
2017	2.108E+04	1.152E+07	2.319E+04	3.302E+02	9.213E+04	3.633E+02
2018	2.296E+04	1.254E+07	2.526E+04	3.597E+02	1.003E+05	3.957E+02
2019	2.483E+04	1.356E+07	2.731E+04	3.890E+02	1.085E+05	4.278E+02
2020	2.669E+04	1.458E+07	2.936E+04	4.181E+02	1.166E+05	4.599E+02
2021	2.854E+04	1.559E+07	3.139E+04	4.471E+02	1.247E+05	4.918E+02
2022	3.039E+04	1.660E+07	3.343E+04	4.761E+02	1.328E+05	5.237E+02
2023	3.224E+04	1.761E+07	3.546E+04	5.050E+02	1.409E+05	5.555E+02
2024	3.409E+04	1.862E+07	3.750E+04	5.340E+02	1.490E+05	5.874E+02
2025	3.594E+04	1.964E+07	3.954E+04	5.630E+02	1.571E+05	6.194E+02
2026	3.780E+04	2.065E+07	4.158E+04	5.922E+02	1.652E+05	6.514E+02
2027	3.967E+04	2.167E+07	4.364E+04	6.215E+02	1.734E+05	6.836E+02
2028	4.155E+04	2.270E+07	4.570E+04	6.509E+02	1.816E+05	7.160E+02
2029	4.344E+04	2.373E+07	4.779E+04	6.806E+02	1.899E+05	7.486E+02
2030	4.535E+04	2.478E+07	4.989E+04	7.104E+02	1.982E+05	7.815E+02
2031	4.728E+04	2.583E+07	5.200E+04	7.406E+02	2.066E+05	8.147E+02
2032	4.922E+04	2.689E+07	5.414E+04	7.711E+02	2.151E+05	8.482E+02
2033	5.119E+04	2.797E+07	5.631E+04	8.019E+02	2.237E+05	8.821E+02
2034	5.318E+04	2.905E+07	5.850E+04	8.331E+02	2.324E+05	9.164E+02
2035	5.265E+04	2.876E+07	5.791E+04	8.247E+02	2.301E+05	9.072E+02
2036	5.008E+04	2.736E+07	5.509E+04	7.845E+02	2.189E+05	8.630E+02

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(short tons/year)	(Mg/year)	(m ³ /year)	(short tons/year)
2037	4.764E+04	2.602E+07	5.240E+04	7.463E+02	2.082E+05	8.209E+02
2038	4.531E+04	2.475E+07	4.985E+04	7.099E+02	1.980E+05	7.808E+02
2039	4.310E+04	2.355E+07	4.741E+04	6.752E+02	1.884E+05	7.428E+02
2040	4.100E+04	2.240E+07	4.510E+04	6.423E+02	1.792E+05	7.065E+02
2041	3.900E+04	2.131E+07	4.290E+04	6.110E+02	1.705E+05	6.721E+02
2042	3.710E+04	2.027E+07	4.081E+04	5.812E+02	1.621E+05	6.393E+02
2043	3.529E+04	1.928E+07	3.882E+04	5.528E+02	1.542E+05	6.081E+02
2044	3.357E+04	1.834E+07	3.693E+04	5.259E+02	1.467E+05	5.785E+02
2045	3.193E+04	1.744E+07	3.513E+04	5.002E+02	1.396E+05	5.503E+02
2046	3.037E+04	1.659E+07	3.341E+04	4.758E+02	1.327E+05	5.234E+02
2047	2.889E+04	1.578E+07	3.178E+04	4.526E+02	1.263E+05	4.979E+02
2048	2.748E+04	1.501E+07	3.023E+04	4.306E+02	1.201E+05	4.736E+02
2049	2.614E+04	1.428E+07	2.876E+04	4.096E+02	1.143E+05	4.505E+02
2050	2.487E+04	1.359E+07	2.736E+04	3.896E+02	1.087E+05	4.285E+02
2051	2.366E+04	1.292E+07	2.602E+04	3.706E+02	1.034E+05	4.076E+02
2052	2.250E+04	1.229E+07	2.475E+04	3.525E+02	9.834E+04	3.878E+02
2053	2.140E+04	1.169E+07	2.355E+04	3.353E+02	9.355E+04	3.688E+02
2054	2.036E+04	1.112E+07	2.240E+04	3.190E+02	8.898E+04	3.509E+02
2055	1.937E+04	1.058E+07	2.130E+04	3.034E+02	8.464E+04	3.337E+02
2056	1.842E+04	1.006E+07	2.027E+04	2.886E+02	8.052E+04	3.175E+02
2057	1.752E+04	9.574E+06	1.928E+04	2.745E+02	7.659E+04	3.020E+02
2058	1.667E+04	9.107E+06	1.834E+04	2.611E+02	7.285E+04	2.873E+02
2059	1.586E+04	8.663E+06	1.744E+04	2.484E+02	6.930E+04	2.732E+02
2060	1.508E+04	8.240E+06	1.659E+04	2.363E+02	6.592E+04	2.599E+02
2061	1.435E+04	7.838E+06	1.578E+04	2.248E+02	6.271E+04	2.472E+02
2062	1.365E+04	7.456E+06	1.501E+04	2.138E+02	5.965E+04	2.352E+02
2063	1.298E+04	7.092E+06	1.428E+04	2.034E+02	5.674E+04	2.237E+02
2064	1.235E+04	6.746E+06	1.358E+04	1.935E+02	5.397E+04	2.128E+02
2065	1.175E+04	6.417E+06	1.292E+04	1.840E+02	5.134E+04	2.024E+02
2066	1.117E+04	6.104E+06	1.229E+04	1.750E+02	4.884E+04	1.926E+02
2067	1.063E+04	5.807E+06	1.169E+04	1.665E+02	4.645E+04	1.832E+02
2068	1.011E+04	5.524E+06	1.112E+04	1.584E+02	4.419E+04	1.742E+02
2069	9.618E+03	5.254E+06	1.058E+04	1.507E+02	4.203E+04	1.657E+02
2070	9.149E+03	4.998E+06	1.006E+04	1.433E+02	3.998E+04	1.577E+02
2071	8.702E+03	4.754E+06	9.573E+03	1.363E+02	3.803E+04	1.500E+02
2072	8.278E+03	4.522E+06	9.106E+03	1.297E+02	3.618E+04	1.426E+02
2073	7.874E+03	4.302E+06	8.662E+03	1.234E+02	3.441E+04	1.357E+02
2074	7.490E+03	4.092E+06	8.239E+03	1.173E+02	3.274E+04	1.291E+02
2075	7.125E+03	3.892E+06	7.837E+03	1.116E+02	3.114E+04	1.228E+02
2076	6.778E+03	3.703E+06	7.455E+03	1.062E+02	2.962E+04	1.168E+02
2077	6.447E+03	3.522E+06	7.092E+03	1.010E+02	2.818E+04	1.111E+02
2078	6.133E+03	3.350E+06	6.746E+03	9.607E+01	2.680E+04	1.057E+02
2079	5.833E+03	3.187E+06	6.417E+03	9.138E+01	2.549E+04	1.005E+02
2080	5.549E+03	3.031E+06	6.104E+03	8.693E+01	2.425E+04	9.562E+01
2081	5.278E+03	2.884E+06	5.806E+03	8.269E+01	2.307E+04	9.096E+01
2082	5.021E+03	2.743E+06	5.523E+03	7.865E+01	2.194E+04	8.652E+01
2083	4.776E+03	2.609E+06	5.254E+03	7.482E+01	2.087E+04	8.230E+01
2084	4.543E+03	2.482E+06	4.997E+03	7.117E+01	1.986E+04	7.829E+01
2085	4.322E+03	2.361E+06	4.754E+03	6.770E+01	1.889E+04	7.447E+01
2086	4.111E+03	2.246E+06	4.522E+03	6.440E+01	1.797E+04	7.084E+01
2087	3.910E+03	2.136E+06	4.301E+03	6.126E+01	1.709E+04	6.738E+01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(short tons/year)	(Mg/year)	(m ³ /year)	(short tons/year)
2088	3.720E+03	2.032E+06	4.092E+03	5.827E+01	1.626E+04	6.410E+01
2089	3.538E+03	1.933E+06	3.892E+03	5.543E+01	1.546E+04	6.097E+01
2090	3.366E+03	1.839E+06	3.702E+03	5.272E+01	1.471E+04	5.800E+01
2091	3.201E+03	1.749E+06	3.522E+03	5.015E+01	1.399E+04	5.517E+01
2092	3.045E+03	1.664E+06	3.350E+03	4.771E+01	1.331E+04	5.248E+01
2093	2.897E+03	1.583E+06	3.186E+03	4.538E+01	1.266E+04	4.992E+01
2094	2.756E+03	1.505E+06	3.031E+03	4.317E+01	1.204E+04	4.748E+01
2095	2.621E+03	1.432E+06	2.883E+03	4.106E+01	1.146E+04	4.517E+01
2096	2.493E+03	1.362E+06	2.743E+03	3.906E+01	1.090E+04	4.296E+01
2097	2.372E+03	1.296E+06	2.609E+03	3.715E+01	1.037E+04	4.087E+01
2098	2.256E+03	1.232E+06	2.482E+03	3.534E+01	9.860E+03	3.888E+01
2099	2.146E+03	1.172E+06	2.361E+03	3.362E+01	9.379E+03	3.698E+01
2100	2.041E+03	1.115E+06	2.245E+03	3.198E+01	8.921E+03	3.518E+01
2101	1.942E+03	1.061E+06	2.136E+03	3.042E+01	8.486E+03	3.346E+01
2102	1.847E+03	1.009E+06	2.032E+03	2.894E+01	8.072E+03	3.183E+01
2103	1.757E+03	9.598E+05	1.933E+03	2.752E+01	7.679E+03	3.028E+01
2104	1.671E+03	9.130E+05	1.838E+03	2.618E+01	7.304E+03	2.880E+01
2105	1.590E+03	8.685E+05	1.749E+03	2.491E+01	6.948E+03	2.740E+01
2106	1.512E+03	8.261E+05	1.663E+03	2.369E+01	6.609E+03	2.606E+01
2107	1.439E+03	7.859E+05	1.582E+03	2.254E+01	6.287E+03	2.479E+01
2108	1.368E+03	7.475E+05	1.505E+03	2.144E+01	5.980E+03	2.358E+01
2109	1.302E+03	7.111E+05	1.432E+03	2.039E+01	5.689E+03	2.243E+01
2110	1.238E+03	6.764E+05	1.362E+03	1.940E+01	5.411E+03	2.134E+01
2111	1.178E+03	6.434E+05	1.296E+03	1.845E+01	5.147E+03	2.030E+01
2112	1.120E+03	6.120E+05	1.232E+03	1.755E+01	4.896E+03	1.931E+01
2113	1.066E+03	5.822E+05	1.172E+03	1.669E+01	4.657E+03	1.836E+01
2114	1.014E+03	5.538E+05	1.115E+03	1.588E+01	4.430E+03	1.747E+01
2115	9.643E+02	5.268E+05	1.061E+03	1.511E+01	4.214E+03	1.662E+01
2116	9.172E+02	5.011E+05	1.009E+03	1.437E+01	4.009E+03	1.581E+01
2117	8.725E+02	4.766E+05	9.598E+02	1.367E+01	3.813E+03	1.504E+01
2118	8.299E+02	4.534E+05	9.129E+02	1.300E+01	3.627E+03	1.430E+01
2119	7.895E+02	4.313E+05	8.684E+02	1.237E+01	3.450E+03	1.360E+01
2120	7.510E+02	4.103E+05	8.261E+02	1.176E+01	3.282E+03	1.294E+01
2121	7.143E+02	3.902E+05	7.858E+02	1.119E+01	3.122E+03	1.231E+01
2122	6.795E+02	3.712E+05	7.475E+02	1.064E+01	2.970E+03	1.171E+01
2123	6.464E+02	3.531E+05	7.110E+02	1.013E+01	2.825E+03	1.114E+01
2124	6.148E+02	3.359E+05	6.763E+02	9.632E+00	2.687E+03	1.059E+01
2125	5.849E+02	3.195E+05	6.433E+02	9.162E+00	2.556E+03	1.008E+01
2126	5.563E+02	3.039E+05	6.120E+02	8.715E+00	2.431E+03	9.587E+00
2127	5.292E+02	2.891E+05	5.821E+02	8.290E+00	2.313E+03	9.119E+00