

US EPA ARCHIVE DOCUMENT

Docket Number: F-2001-PMLP-FFFFF
January 19, 2001

**Regulatory Flexibility Screening Analysis
for the Proposed Concentration-Based Listing of
Wastewaters and Non-wastewaters from the
Production of Paints and Coatings**

FINAL REPORT

APPENDICES TO REPORT

APPENDIX A
Recent Industry News Article Highlights

“BASF builds coatings plant, expands glycols.” C&EN 8 March 1999.

- BASF Corporation is building a powder coating plant at its Morgantown, N.C. site. “The 20 million-lb-per-year plant will start up in mid-2000, eventually increasing employment to 50 at the site.” Epoxies, acrylics, and hybrid technologies will be used to produce the coatings. In the end, BASF will be able to produce 925 million lbs of ethylene oxide and 860 million lbs of glycols.

“Dupont restructures coatings business.” C&EN 12 July 1999

- Dupont plans to restructure its performance coating business following its acquisition of Herberts. The plan includes a 9 percent reduction in staff. The moves are necessary to streamline operations and improve productivity. Combined, the two companies will be known as Dupont Performance Coatings making Dupont the world’s largest supplier of original equipment manufacture and aftermarket coatings and the third largest coatings company.

“PPG completes coatings purchase.” C&EN 9 August 1999.

- PPG Industries has completed the purchase of London base ICI’s automotive and industrial coatings businesses, as well as automotive solvent and thinner businesses in North America. By year end PPG will close on the purchase of ICI’s auto finish and industrial coatings business in Asia, excluding the Indian subcontinent. In a second deal, PPG acquired PRC-De Soto from Akzo Nobel. PRC-De Soto is a global supplier of coatings and sealants for aircraft.

“PPG rolls out auto primer system.” C&EN 16 August 1999.

- PPG Industries has introduced a new two-part electrodeposition process which will change the way vehicles are painted. The system includes a corrosion-inhibiting primer followed by a innovative antichip primer-surface coating. The new system will provide a richer coating and cost less than a traditional spray booth. The savings are gained through reduced energy use and labor requirements. In addition, the new process meets stringent environmental regulation by eliminating volatile organic compounds (VOCs).

“Business Roundup.” C&EN 15 March 1999.

- BF Goodrich purchased Mydrin textile coatings business of Bostik Ltd., a subsidiary of France’s Total. Goodrich was attracted to Mydrin because of its flame-retardant coatings business, which account for 40 percent of 1998 sales.

“Business Roundup.” C&EN 27 September 1999.

- Chemetall, a subsidiary of Dynamit Nobel, completed its purchase of Brent International. The acquisition will expand Chemetall surface treatment business.

“Business Roundup.” C&EN 25 January 1999.

- BASF Corporation is closing its solvent based automotive paint and coatings manufacturing facility in Detroit. The move will affect about 200 employees. The manufacturing of these products will move to other BASF Corp. facilities.

“PPG adds to coatings with Belgian buy.” C&EN 15 February 1999.

- In an effort to expand business in vehicle refinishes in Europe, PPG has acquired the commercial transport refinish coatings business of Sigma Coatings, a subsidiary of Petrofina. As part of the expansion, about 25 workers will be transferred to PPG.

“Business Roundup.” C&EN 13 April 1999.

- Ningbo Powder Coatings, a producers of heat fusible powder coatings located 100 miles south of Shanghai, plans to be sold to Cleveland-based Ferro.

“Valspar to buy Dexter’s packaging coatings business.” C&EN 31 August 1999.

- Minneapolis-based Valspar Corporation will acquire Windsor Locks, Connecticut based Dexter’s packaging coatings business. With operations in more than 12 countries, Dexter’s packaging operations produce coatings for beverages and aerosol cans. The purchase of Windsor highlights Valspar’s strategy to expand into Europe and other international markets.

“PPG to buy coatings business in Australia.” C&EN 31 August 1999.

- In an effort to build its presence in the southern Pacific region, PPG has struck a deal with Orica to purchase its automotive and industrial coatings business. The deal will give PPG manufacturing, office, laboratory, warehouse facilities, and approximately 600 employees. Coatings accounted for 40 percent of PPG total sales in 1997.

“Hoechst to sell its coatings business” C&EN 24 August 1998.

- Hoechst is selling its coatings subsidiary, Herberts, to the investment firm Kohlberg, Kravis, Roberts, and Company and Herberts’ managers for \$1.7 billion. The proceeds will be used to pay off company debt.

“Hoechst coating going to Dupont” C&EN 2 November 1998.

- Just days after the investment firm Kolberg, Kravis, Roberts, and Company agree to purchase Herberts, the coatings subsidiary of Hoechst, the agreement was dropped because the price was starting to look too high. In the wake of the deal powerhouse Dupont agreed to purchase the coating company and its affiliates.

“Akzo Nobel Buys Coatings.” Chemical Market 7, August 2000.

- Akzo Nobel will double its aerospace coatings business through the acquisition of Dexter Corporation’s aerospace and specialty coatings business. The acquisition has significantly strengthened Akzo Nobel’s position in the coatings market.

“Valspar to acquire Lilly Industries” Chemicalweek 7 July 2000.

- Valspar Industries will acquire paint maker Lilly Industries, based in Indianapolis. The transaction is valued at approximately 975 million dollars. The merger will allow Valspar to offer a broader selection of products to its customers and create greater value for its shareholders. The merger is anticipated to close by the end of the year.

“Scanning Kelvin Probe Promises Corrosion Revolution” Paint and Coatings 22 August 2000.

- The Scanning Kelvin Probe, developed by CSIRO Sustainable Materials Engineering (CSME), is a new scientific instrument which promises to unveil corrosion secrets. This new scientific tool discovers the whole process of corrosion by capturing of the electrochemical reactions which occur during corrosion. This development could significantly reduce the cost of fixing rusty cars or maintaining bridges.

“ICI Canada Partners with EnviroCoatings, Inc.” Paint and Coatings 4 August 2000.

- ICI Canada Partners will team up with EnviroCoatings to distribute Ceramic InsulCoat R:E Paint and Coating Systems, a high performance paint and coatings product family. This partnership benefits EnviroCoatings by providing them access to a well established sales and distribution unit and the interaction with the world’s leading paint industry.

Note: C&EN = Chemical and Engineering News

APPENDIX B
1995 and 1997 Biennial Report Data Query Algorithm

Solvent Cleaning Wastes

- Sort based on SIC Code, Source Code and Form Code.
- Keep all records containing SIC Code = 2851, Source Code = A09 (cleanout process equipment), Origin Code = 1 (generated on site from a production process, service activity, or routine cleanup) and Form Codes = B201 through B204, B207, B209, B211)

Caustic Cleaning Wastes:

- Sort based on SIC Code and Source Code.
- Keep all records containing SIC Code = 2851 and Source Code = A03 (caustic cleaning) or A09 (cleanout process equipment), Origin Code = 1 (generated on site from a production process, service activity, or routine cleanup) and Form Codes = B106 - B110

Aqueous Cleaning Wastes:

- Sort based on SIC Code, Source Code and Form Code.
- Keep all records containing SIC Code = 2851 and Source Code = A09 (cleanout process equipment), Origin Code = 1 (generated on site from a production process, service activity, or routine cleanup) and Form Codes = B101, B102, B113, B114, B115

Wastewater Treatment Sludge

- Sort based on SIC Code, Source Code and Form Code.
- Keep all records containing SIC Code = 2851, Source Code = A71 (filtering/screening), A75 (wastewater treatment), or A76 (sludge dewatering), Origin Code = 1 (generated on site from a production process, service activity, or routine cleanup), 3 (derived from the management of a non-hazardous waste), or 5 (residual from on-site TDR of a previously existing hazardous waste) and Form Codes = B301 through B609

Emission Control Dust

- Sort based on SIC Code and Source Code.
- Keep all records containing SIC Code = 2851, Source Code = A78 (air pollution control devices), and Origin Code = 1 (generated on site from a production process, service activity, or routine cleanup), 3 (derived from the management of a non-hazardous waste), or 5 (residual from on-site TDR of a previously existing hazardous waste).

Off-specification Production Wastes:

- Sort based on SIC Code, Source Code and Form Code.
- Keep all records containing SIC Code = 2851, Source Code = A57 (discarding off-spec material) or A58 (discarding out-of-date products or chemicals), and Origin Code = 1 (generated on site from a production process, service activity, or routine cleanup), and Form Code = B001, B003, B004, B009, B101, B102, B113, B201, B202, B203, B204, B207, B209-B212, B219, B315, B316, B403, B405, B409, B604, or B606.

APPENDIX C

Comparison of Model Facility Waste Generation Rates with 1997 BRS Waste Generation Statistics *					
Model Facility (employees)	Solvent Cleaning Waste	Water/Caustic Cleaning Waste	WWTS	Emission Control Dust	Off Spec Product
<i>Model Facility Waste Generation Estimates**</i> (tons of waste generated per year per facility)					
10	9.5	7.3	3.0	0.6	2.2
50	58.0	45.0	18.6	3.5	13.4
150	214.0	164.0	68.4	13.0	49.4
300	456.0	349.0	145.6	27.6	105.2
<i>1997 BRS Waste Generation Statistics</i>					
Number of Facilities Reporting	254	20	8	22	181
Total Waste (tons/year)	45,521.0	1,795.0	71.2	232.1	17,388.0
Mean (tons/year/facility)	179.2	89.8	8.9	10.6	96.1
Waste Generation Percentiles (tons of waste generated per year per facility)					
10%	4.3	1.5	0.2	0.2	0.6
25%	16.9	13.4	1.4	0.2	4.7
50%	56.1	33.7	3.0	0.2	15.7
75%	180.3	64.8	16.6	7.7	64.7
90%	382.3	223.6	22.6	19.8	244.6
<p>* BRS data are limited to a generally small number of firms, all of which are large quantity generators (as are the model facilities). Accordingly, some direct comparisons of the model facility estimates and the BRS data can be made to gain a sense of the validity of the estimates.</p> <p>** Model facility waste generation estimates based on waste generation ratios presented in Table 4-1.</p>					

APPENDIX D				
WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
Solvent Cleaning Sludge sp. gr. = 1.1	Subtitle D Landfill (drum)	\$75/drum ¹ \$1.36/gal \$256/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Solidification & Subtitle D Landfill (drum)	\$113/drum ³ \$2.05/gal \$492/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Subtitle D Landfill (bulk)	\$0.30/gal \$71.14/metric ton ⁴	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Solidification and Subtitle D Landfill (bulk)	\$0.70/gal \$167/metric ton ⁶	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Incineration (drum)	\$207/drum ² \$3.76/gal \$902/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Subtitle C Incineration (bulk)	\$2.99/gal \$716/metric ton ⁵	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Fuel Blending and Subtitle C Cement Kiln (drum)	\$2.11/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton

APPENDIX D WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	\Fuel Blending and Subtitle C Cement Kiln (bulk)	\$2.11/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
Water Cleaning Sludge sp. gr. = 1.4	Subtitle D Landfill (drum)	\$75/drum ¹ \$1.36/gal \$256/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Solidification and Subtitle D Landfill (drum)	\$113/drum ³ \$2.05/gal \$386/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Subtitle C Landfill (drum)	\$80/drum ⁷ \$1.45/gal \$273/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Subtitle C Landfill (bulk)	\$0.57/gal \$108/metric ton ⁸	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.92/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Solidification & Subtitle C Landfill (drum)	\$118/drum ⁸ \$2.15/gal \$405/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Solidification & Subtitle C Landfill (bulk)	\$1.08/gal \$204/metric ton ⁸	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.92/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle D Landfill (bulk)	\$0.38/gal \$71.14/metric ton ⁴	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.92/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton

APPENDIX D WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	Solidification and Subtitle D Landfill (bulk)	\$0.89/gal \$167/metric ton ⁶	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.92/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Incineration (drum)	\$207/drum ² \$3.76/gal \$708/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Subtitle C Incineration (bulk)	\$3.80/gal \$716/metric ton ⁵	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.92/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Fuel Blending and Hazardous Cement Kiln (drum)	\$2.69/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Fuel Blending and Hazardous Cement Kiln (bulk)	\$2.69/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.92/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Fuel Blending and Non-Hazardous Cement Kiln (drum)	\$0.32/gal \$59/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Fuel Blending and Non-Hazardous Cement Kiln (bulk)	\$0.32/gal \$59/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.92/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton

APPENDIX D				
WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
Caustic Cleaning Sludge sp. gr. = 1.1	Subtitle C Incineration (drum)	\$207/drum ² \$3.76/gal \$902/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Subtitle C Incineration (bulk)	\$2.99/gal \$716/metric ton ⁵	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Fuel Blending and Subtitle C Cement Kiln (drum)	\$2.11/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Fuel Blending and Subtitle C Cement Kiln (bulk)	\$2.11/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Off-Site Subtitle C Wastewater Treatment (drum)	\$248/drum \$4.50/gal ⁹ \$1,186/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Off-Site Subtitle C Wastewater Treatment (bulk)	\$165/drum \$3.00/gal ⁹ \$791/metric ton	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton

APPENDIX D WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
Wastewater Treatment Sludge sp. gr. = 1.5	Subtitle D Landfill (drum)	\$75/drum ¹ \$1.36/gal \$239/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.54/gal = \$3.90/gal \$661/metric ton + 0.25 * \$96/metric ton ⁶ = \$685/metric ton
	Solidification and Subtitle D Landfill (drum)	\$113/drum ³ \$2.05/gal \$361/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.54/gal = \$3.90/gal \$661/metric ton + 0.25 * \$96/metric ton ⁶ = \$685/metric ton
	Subtitle D Landfill (bulk)	\$0.40/gal \$71.14/metric ton ⁴	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$4.07/gal + 0.25 * \$0.54/gal = \$4.21/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Solidification and Subtitle D Landfill (bulk)	\$0.95/gal \$167/metric ton ⁶	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$4.07/gal + 0.25 * \$0.54/gal = \$4.21/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Incineration (drum)	\$207/drum ² \$3.76/gal \$661/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.54/gal = \$3.90/gal \$661/metric ton + 0.25 * \$96/metric ton ⁶ = \$685/metric ton
	Subtitle C Incineration (bulk)	\$4.07/gal \$716/metric ton ⁵	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$4.07/gal + 0.25 * \$0.54/gal = \$4.21/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Fuel Blending and Nonhazardous Cement Kiln (drum)	\$0.34/gal \$59/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk))	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.54/gal = \$3.90/gal \$661/metric ton + 0.25 * \$96/metric ton ⁶ = \$685/metric ton
	Fuel Blending and Nonhazardous Cement Kiln (bulk)	\$0.34/gal \$59/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$4.07/gal + 0.25 * \$0.54/gal = \$4.21/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton

APPENDIX D WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	Off-Site Non-Hazardous Wastewater Treatment (drum)	\$144/drum \$2.63/gal ¹⁰ \$462/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.54/gal = \$3.90/gal \$661/metric ton + 0.25 * \$96/metric ton ⁶ = \$685/metric ton
	Off-Site Non-Hazardous Wastewater Treatment (bulk)	\$96/drum \$1.75/gal ¹⁰ \$308/metric ton	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$4.07/gal + 0.25 * \$0.54/gal = \$4.21/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
Emission Control Dust sp. gr. = 1.4	Subtitle D Landfill (drum)	\$75/drum ¹ \$1.36/gal \$256/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Solidification and Subtitle D Landfill (drum)	\$113/drum ³ \$2.05/gal \$386/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Subtitle D Landfill (bulk)	\$0.38/gal \$71.14/metric ton ⁴	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.93/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Solidification and Subtitle D Landfill (bulk)	\$0.89/gal \$167/metric ton ⁶	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.93/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Landfill (drum)	\$80/drum ⁷ \$1.45/gal \$273/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Solidification and Subtitle C Landfill (drum)	\$118/drum ⁸ \$2.15/gal \$405/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton

APPENDIX D WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	Subtitle C Landfill (bulk)	\$0.57/gal \$108/metric ton ⁸	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.93/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Solidification and Subtitle C Landfill (bulk)	\$1.08/gal \$204/metric ton ⁸	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.93/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Incineration (drum)	\$207/drum ² \$3.76/gal \$708/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Subtitle C Incineration (bulk)	\$3.80/gal \$716/metric ton ⁵	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.93/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Cement Kiln (drum)	\$2.69/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.51/gal = \$3.89/gal \$708/metric ton + 0.25 * \$96/metric ton ⁶ = \$733/metric ton
	Subtitle C Cement Kiln (bulk)	\$2.69/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.80/gal + 0.25 * \$0.51/gal = \$3.93/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton

APPENDIX D WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	On-Site Non-Hazardous Treatment Tank	NA	Same as baseline. Exempt from listing.	NA
Off-Specification Production Wastes sp. gr. = 1.1	Subtitle D Landfill (drum)	\$75/drum ¹ \$1.36/gal \$326/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Solidification and Subtitle D Landfill (drum)	\$113/drum ³ \$2.05/gal \$492/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Subtitle D Landfill (bulk)	\$0.30/gal \$71.74/metric ton ⁴	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Solidification and Subtitle D Landfill (bulk)	\$0.70/gal \$167/metric ton ⁶	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Landfill (drum)	\$80/drum ⁷ \$1.45/gal \$348/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Solidification and Subtitle C Landfill (drum)	\$118/drum ⁸ \$2.15/gal \$516/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Subtitle C Landfill (bulk)	\$0.45/gal \$108/metric ton ⁸	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton

APPENDIX D WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	Solidification and Subtitle C Landfill (bulk)	\$0.85/gal \$204/metric ton ⁸	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Off-Site Non-Hazardous Wastewater Treatment (drum)	\$144/drum \$2.63/gal ¹⁰ \$692/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Off-Site Non-Hazardous Wastewater Treatment (bulk)	\$96/drum \$1.75/gal ¹⁰ \$420/metric ton	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Incineration (drum)	\$207/drum ² \$3.76/gal \$902/metric ton	Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Subtitle C Incineration (bulk)	\$2.99/gal \$716/metric ton ⁵	Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Fuel Blending and Nonhazardous Cement Kiln (drum)	\$14/drum \$0.25/gal \$59/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton
	Fuel Blending and Nonhazardous Cement Kiln (bulk)	\$14/drum \$0.25/gal \$59/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton
	Subtitle C Cement Kiln (drum)	\$116/drum \$2.11/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$3.76/gal + 0.25 * \$0.40/gal = \$3.86/gal \$902/metric ton + 0.25 * \$96/metric ton ⁶ = \$926/metric ton

**APPENDIX D
WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR NONWASTEWATERS (PROPOSED AS K179)**

Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	Subtitle C Cement Kiln (bulk)	\$116/drum \$2.11/gal \$507/metric ton ¹¹	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle D Landfill (bulk)	Assuming 25% ash: \$2.99/gal + 0.25 * \$0.40/gal = \$3.09/gal \$716/metric ton ⁵ + 0.25 * \$96/metric ton ⁶ = \$740/metric ton

Notes to Appendix D:

NA = Not Applicable; sp. gr. = specific gravity (average value reported in RCRA 3007 Survey); All **drums** are 55 gallon.

* Transportation costs need to be added to the unit costs. They already are incorporated into the Subtitle D landfill unit costs. ECHOS reported transportation costs to be \$0.01875/drum/mile and \$0.09/metric ton/mile with a minimum of \$683 per shipment; however this minimum charge appears unrepresentative based on contacts with industry and a minimum charge of \$300 is applied. Assume 50 miles to the nearest off-site nonhazardous wastewater treatment facility, 200 miles to the nearest Subtitle C landfill, hazardous wastewater treatment facility, and nonhazardous fuel blender/cement kiln and 300 miles to the nearest Subtitle C incinerator and fuel blender/cement kiln. Costs per ton mile are approximately \$0.13 for bulk wastes for a 200 mile haul; \$0.12 for a 300 mile haul. Under the compliance scenario, for LQGs assume a 90-day waste accumulation period and for SQGs assume a 180-day waste accumulation period. For facilities currently shipping solid and liquid paint wastes to off-site wastewater treatment facilities that use impoundments assume the facilities will ship to another WWTF that uses tanks located 100 miles further away.

Also, the cost for stabilized waste sent to a Subtitle D landfill equals approximately \$107/metric ton accounting for the residual increase of 1.5 from stabilization (ref. *Assessment of the Potential Costs and Benefits of the Hazardous Waste Identification Rule for Industrial Process Wastes, as Proposed*, May 25, 1995). This is equivalent to the unit cost of a non-stabilized waste sent to a Subtitle C landfill of approximately \$108/metric ton. Therefore, no incremental landfill disposal savings/costs are included for stabilized ash disposed in a Subtitle D landfill under compliance.

1. Environmental Cost Handling Options and Solutions (ECHOS), *Environmental Remediation Cost Data-Unit Price*, 5th Annual Edition, published by R.S. Means, 1999, Assembly #33 19 7205 (for the remainder of the notes only the final four digits, e.g., #7205 will be reported for this source). In 1999 R.S. Means, an "assembly" is an index number for the record (line item) in the book containing the unit price for this activity.
2. Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; drum unit price for pumpable sludge.
3. #7205 (\$75/drum) + the stabilization cost (\$38/drum) reported for hazardous waste in Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; \$118/drum with stabilization - \$80/drum without stabilization = \$38/drum.
4. #7269 (\$64.47/ton)
5. Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; bulk unit price for pumpable sludge.
6. #7269 (\$64.67/ton) + the stabilization cost (\$87/ton) reported for hazardous waste in Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; \$185/ton with stabilization - \$98/ton without stabilization = \$87/ton (\$96/metric ton).
7. Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; drum unit cost estimate.
8. Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; bulk unit cost estimate.
9. #7303; Published unit costs were available for bulk shipments. Assumed drum unit costs are 50 percent higher than the bulk unit costs to account for the additional handling costs.
10. #7302; Published unit costs were available for bulk shipments. Assumed drum unit costs are 50 percent higher than the bulk unit costs to account for the additional handling costs.
11. Memorandum: Costs of the Phase IV LDRs on MGP Wastes, January 1998. Inflated to 1998 dollars assuming a 2.5% inflation rate.

APPENDIX E WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR WASTEWATERS (K180)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
Solvent Cleaning Liquids sp. gr. = 1.0	Subtitle D Landfill (drum only because of small quantity reported)	\$135/drum ⁴ \$2.45/gal \$647/metric ton	Off-site (because of small qty.) Activated Sludge Biological Treatment and Metals Precipitation (drum) and Off-Site Solidification of Wastewater Treatment Sludge and Subtitle C Landfill (bulk)	Assuming 5% sludge: $\$4.50/\text{gal}^2 + 0.05 * \$0.77/\text{gal} = \$4.54/\text{gal}$ $\$1,187/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$1,197/\text{metric ton}$
	Solidification & Subtitle D Landfill (drum only because of small quantity reported)	\$173/drum ⁵ \$3.15/gal \$829/metric ton	Off-site (because of small qty.) Activated Sludge Biological Treatment and Metals Precipitation (drum) and Off-Site Solidification of Wastewater Treatment Sludge and Subtitle C Landfill (bulk)	Assuming 5% sludge: $\$4.50/\text{gal}^2 + 0.05 * \$0.77/\text{gal} = \$4.54/\text{gal}$ $\$1,187/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$1,197/\text{metric ton}$
	Subtitle C Incineration (drum)	\$124/drum ⁶ \$2.25/gal \$594/metric ton	Incineration (drum) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: $\$2.25/\text{gal} + 0.05 * \$0.77/\text{gal} = \$2.29/\text{gal}$ $\$594/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$604/\text{metric ton}$
	Subtitle C Incineration (bulk)	\$0.59/gal ⁶ \$155/metric ton	Incineration (bulk) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: $\$0.59/\text{gal}^6 + 0.05 * \$0.77/\text{gal} = \$0.63/\text{gal}$ $\$155/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$165/\text{metric ton}$
	Fuel Blending and Non-Hazardous Cement Kiln (drum)	\$13/drum \$0.23/gal \$59/metric ton ³	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: $\$2.25/\text{gal} + 0.05 * \$0.77/\text{gal} = \$2.29/\text{gal}$ $\$594/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$604/\text{metric ton}$

APPENDIX E WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR WASTEWATERS (K180)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	Fuel Blending and Non-Hazardous Cement Kiln (bulk)	\$0.23/gal \$59/metric ton ³	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: $\$0.59/\text{gal}^6 + 0.05 * \$0.77/\text{gal} = \$0.63/\text{gal}$ $\$155/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$165/\text{metric ton}$
	Fuel Blending and Subtitle C Cement Kiln (drum)	\$106/drum \$1.92/gal \$507/metric ton ³	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: $\$2.25/\text{gal} + 0.05 * \$0.77/\text{gal} = \$2.29/\text{gal}$ $\$594/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$604/\text{metric ton}$
	Fuel Blending and Subtitle C Cement Kiln (bulk)	\$1.92/gal \$507/metric ton ³	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: $\$0.59/\text{gal}^6 + 0.05 * \$0.77/\text{gal} = \$0.63/\text{gal}$ $\$155/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$165/\text{metric ton}$
Water Cleaning Liquids sp. gr. = 1.0	Subtitle D Landfill (drum only because of small quantity reported)	\$135/drum ⁴ \$2.45/gal \$647/metric ton	Off-site (because of small qty.) Activated Sludge Biological Treatment and Metals Precipitation (drum) and Off-Site Solidification of Wastewater Treatment Sludge and Subtitle C Landfill (bulk)	Assuming 5% sludge: $\$4.50/\text{gal}^2 + 0.05 * \$0.77/\text{gal} = \$4.54/\text{gal}$ $\$1,187/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$1,197/\text{metric ton}$
	Solidification & Subtitle D Landfill (drum only because of small quantity reported)	\$173/drum ⁵ \$3.15/gal \$829/metric ton	Off-site (because of small qty.) Activated Sludge Biological Treatment and Metals Precipitation (drum) and Off-Site Solidification of Wastewater Treatment Sludge and Subtitle C Landfill (bulk)	Assuming 5% sludge: $\$4.50/\text{gal}^2 + 0.05 * \$0.77/\text{gal} = \$4.54/\text{gal}$ $\$1,187/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$1,197/\text{metric ton}$
	Subtitle C Incineration (drum)	\$124/drum ⁶ \$2.25/gal \$598/metric ton	Incineration (drum) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: $\$2.25/\text{gal} + 0.05 * \$0.77/\text{gal} = \$2.29/\text{gal}$ $\$594/\text{metric ton} + 0.05 * \$204/\text{metric ton}^1 = \$604/\text{metric ton}$

APPENDIX E WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR WASTEWATERS (K180)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
	Subtitle C Incineration (bulk)	\$0.59/gal ⁶ \$155/metric ton	Incineration (bulk) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: \$0.59/gal ⁶ + 0.05 * \$0.77/gal = \$0.63/gal \$155/metric ton + 0.05 * \$204/metric ton ¹ = \$165/metric ton
	Fuel Blending and Non-Hazardous Cement Kiln (drum)	\$13/drum \$0.23/gal \$59/metric ton ³	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: \$2.25/gal + 0.05 * \$0.77/gal = \$2.29/gal \$594/metric ton + 0.05 * \$204/metric ton ¹ = \$604/metric ton
	Fuel Blending and Non-Hazardous Cement Kiln (bulk)	\$0.23/gal \$59/metric ton ³	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: \$0.59/gal ⁶ + 0.05 * \$0.77/gal = \$0.63/gal \$155/metric ton + 0.05 * \$204/metric ton ¹ = \$165/metric ton
	Fuel Blending and Subtitle C Cement Kiln (drum)	\$106/drum \$1.92/gal \$507/metric ton ³	Same as baseline. For sensitivity analysis assume: Incineration (drum) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: \$2.25/gal + 0.05 * \$0.77/gal = \$2.29/gal \$594/metric ton + 0.05 * \$204/metric ton ¹ = \$604/metric ton
	Fuel Blending and Subtitle C Cement Kiln (bulk)	\$1.92/gal \$507/metric ton ³	Same as baseline. For sensitivity analysis assume: Incineration (bulk) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: \$0.59/gal ⁶ + 0.05 * \$0.77/gal = \$0.63/gal \$155/metric ton + 0.05 * \$204/metric ton ¹ = \$165/metric ton
	On-Site Subtitle C Treatment Tank and On-Site Wastewater Treatment Facility	NA	Same as baseline. Exempt from listing.	NA
	POTW	NA	Same as baseline. Exempt from RCRA because regulated under Clean Water Act.	NA
	NPDES	NA	Same as baseline. Exempt from RCRA because regulated under Clean Water Act.	NA
	Off-Site Subtitle D or C Wastewater Treatment (drum or bulk)	NA	Same as baseline. Exempt from listing.	NA

APPENDIX E WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR WASTEWATERS (K180)				
Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
Caustic Cleaning Liquids sp. gr. = 1.0	Subtitle C Incineration (drum)	\$124/drum ⁶ \$2.25/gal \$594/metric ton	Incineration (drum) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: \$2.25/gal + 0.05 * \$0.77/gal = \$2.29/gal \$594/metric ton + 0.05 * \$204/metric ton ¹ = \$604/metric ton
	Subtitle C Incineration (bulk)	\$0.59/gal ⁶ \$155/metric ton	Incineration (bulk) and Ash Solidification and Subtitle C Landfill (bulk)	Assuming 5% ash: \$0.59/gal ⁶ + 0.05 * \$0.77/gal = \$0.63/gal \$155/metric ton + 0.05 * \$204/metric ton ¹ = \$165/metric ton
	On-Site Non-Hazardous Treatment Tank	NA	Same as baseline. Exempt from listing.	NA
	POTW	NA	Same as baseline. Exempt from RCRA because regulated under Clean Water Act.	NA
	Off-Site Subtitle C Wastewater Treatment (drum or bulk)	NA	Same as baseline. Exempt from RCRA if managed in tanks regulated under Clean Water Act.	NA

APPENDIX E

WASTE MANAGEMENT BASELINE AND COMPLIANCE UNIT COST ESTIMATES (1999 DOLLARS) FOR WASTEWATERS (K180)

Waste	Baseline Management Practice	Baseline Unit Cost*	Compliance Management Practice	Compliance Unit Cost*
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Notes to Appendix E: NA = Not Applicable; sp. gr. = specific gravity (average value reported in 1998 RCRA 3007 Survey); All **drums** are 55 gallon.

* Transportation costs need to be added to the unit costs. ECHOS reported transportation costs to be \$0.01875/drum/mile and \$0.09/metric ton/mile with a minimum of \$683 per shipment; however this minimum charge appears unrepresentative based on contacts with industry and a minimum charge of \$300 is applied. Assume 50 miles to the nearest off-site nonhazardous wastewater treatment facility, 200 miles to the nearest Subtitle C landfill, hazardous wastewater treatment facility, and nonhazardous fuel blender/cement kiln and 300 miles to the nearest Subtitle C incinerator and fuel blender/cement kiln. Costs per ton mile are approximately \$0.13 for bulk wastes for a 200 mile haul; \$0.12 for a 300 mile haul. Under the compliance scenario, for LQGs assume a 90-day waste accumulation period and for SQGs assume a 180-day waste accumulation period. For facilities currently shipping solid and liquid paint wastes to off-site wastewater treatment facilities that use impoundments assume the facilities will ship to another WWTF that uses tanks located 100 miles further away.

Also, the cost for stabilized waste sent to a Subtitle D landfill equals approximately \$107/metric ton accounting for the residual increase of 1.5 from stabilization (ref. *Assessment of the Potential Costs and Benefits of the Hazardous Waste Identification Rule for Industrial Process Wastes, as Proposed*, May 25, 1995). This is equivalent to the unit cost of a non-stabilized waste sent to a Subtitle C landfill of approximately \$108/metric ton. Therefore, no incremental landfill disposal savings/costs are included for stabilized ash disposed in a Subtitle D landfill under compliance.

1. Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; used bulk unit cost estimate (\$185/ton for Subtitle C landfill with stabilization, \$98/ton for Subtitle C landfill without stabilization, and \$87/ton for stabilization).
2. Environmental Cost Handling Options and Solutions (ECHOS), *Environmental Remediation Cost Data-Unit Price*, 5th Annual Edition, published by R.S. Means, 1999, Assembly #33 19 7303. Published unit costs were available for bulk shipments. Assumed drum unit costs are 50 percent higher than the bulk unit costs to account for the additional handling costs.
3. Memorandum: Costs of the Phase IV LDRs on MGP Wastes, January 1998. Inflated to 1998 dollars assuming a 2.5% inflation rate.
4. Environmental Cost Handling Options and Solutions (ECHOS), *Environmental Remediation Cost Data-Unit Price*, 5th Annual Edition, published by R.S. Means, 1999, Assembly #33 19 7214 (\$135/drum).
5. Environmental Cost Handling Options and Solutions (ECHOS), *Environmental Remediation Cost Data-Unit Price*, 5th Annual Edition, published by R.S. Means, 1999, Assembly #33 19 7214 (\$135/drum) + the stabilization cost (\$38/drum) reported for hazardous waste in Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; \$118/drum with stabilization - \$80/drum without stabilization = \$38/drum.
6. Hazardous Waste Resource Center - January 2000 Incinerator and Landfill Cost Data, <http://www.etc.org/costsurvey3.cfm>; Used drum unit price for non-halogen liquid.

APPENDIX F

REPRESENTATIVE FACILITY COMPUTATIONAL TABLES

(Data Source for Appendix F Tables: RCRA 3007 Survey data and cost data from Appendix Tables D and E)

DESCRIPTION OF CODES APPLIED IN THE TABLES:NONWASTEWATERS:

HCS	Hazardous Caustic Sludge
HED	Hazardous Emission Control Dust
HOR	Hazardous Off-Specification Product
HSS	Hazardous Solvent Sludge
HWS	Hazardous Wastewater Sludge
NCS	Nonhazardous Caustic Sludge
NED	Nonhazardous Emission Control Dust
NOR	Nonhazardous Off-Specification Product
NSS	Nonhazardous Solvent Sludge
NWS	Nonhazardous Wastewater Sludge
NWTS	Nonhazardous Wastewater Treatment Sludge

WASTEWATERS:

HCL	Hazardous Caustic Liquid
HSL	Hazardous Solvent Liquid
HWL	Hazardous Wastewater Liquid
NCL	Nonhazardous Caustic Liquid
NSL	Nonhazardous Solvent Liquid
NWL	Nonhazardous Wastewater Liquid

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
1	3.6290	0	0	0	0	0	1	1	4	7
2	3.6290	0	0	0	0	0	0	0	0	0
3	1.0500	0	0	0	0	0	139	139	145	249
4	3.6290	0	0	0	0	0	0	0	1	2
5	4.0476	0	0	0	0	0	1	1	5	9
6	4.0476	0	4	0	0	0	0	4	18	31
7	1.0417	0	64	55	0	0	0	119	124	213
8	1.2143	3	2	0	0	0	8	14	17	29
9	1.0500	0	59	0	0	0	0	59	62	106
10	3.6290	0	0	0	0	0	6	6	23	39
11	1.0000	0	129	0	0	0	18	148	148	254
12	1.1951	0	0	0	0	0	0	0	0	0
13	1.1951	0	0	0	0	0	52	52	62	106
14	1.0417	0	0	0	0	0	66	66	68	117
15	3.6290	0	1	0	0	0	0	1	3	5

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
16	1.2143	0	0	0	0	0	0	0	0	0
17	4.0476	0	4	0	0	0	0	4	18	31
18	1.0417	0	10	0	0	0	357	368	383	657
19	1.0417	0	26	0	0	0	0	26	27	46
20	1.0417	0	4	0	0	0	32	36	37	63
21	3.6290	0	6	0	0	0	0	6	22	38
22	1.2143	0	1	0	0	0	0	1	1	2
23	1.2143	0	2	0	23	0	0	24	29	50
24	1.1951	0	1	0	0	0	0	1	1	2
25	1.0000	0	0	0	0	0	33	33	33	57
26	3.6290	0	0	0	0	0	8	8	27	46
27	1.1951	0	7	0	0	0	101	108	129	221
28	1.2143	0	74	0	0	0	0	74	90	154
29	4.0476	0	0	0	0	0	0	0	0	0
30	1.1951	0	1	0	0	0	0	1	1	2
31	1.1951	0	0	0	0	0	0	0	0	0

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
32	1.0417	0	1	0	0	0	0	1	1	2
33	4.0476	0	0	0	0	0	0	0	0	0
34	1.1951	0	0	0	0	0	12	12	15	26
35	1.1951	0	7	0	0	0	1	7	9	15
36	4.0476	0	0	0	0	0	0	0	0	0
37	1.1951	0	22	0	0	0	0	22	26	45
38	1.2143	0	2	0	0	0	3	4	5	9
39	1.0500	0	13	0	0	0	91	104	109	187
40	1.0500	0	0	0	0	0	29	29	30	51
41	4.0476	0	57	0	0	0	19	76	307	527
42	1.0000	0	2	0	0	0	0	2	2	3
43	3.6290	0	0	0	0	0	0	0	0	0
44	4.0476	0	0	0	0	0	0	0	0	0
45	1.0000	0	0	0	33	0	128	161	161	276
46	1.1951	4	0	0	0	0	0	4	5	9
47	1.1951	0	39	0	0	0	43	82	98	168

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
48	3.6290	0	95	0	0	0	0	95	346	594
49	1.1951	0	0	0	0	0	113	113	135	232
50	3.6290	0	22	0	0	0	0	22	81	139
51	1.1951	0	236	0	0	0	42	278	332	570
52	1.2143	0	0	0	0	0	19	19	23	39
53	1.1951	0	6	0	0	0	383	389	465	798
54	1.0000	0	0	0	0	0	85	85	85	146
55	1.0417	0	2,812	0	0	0	5	2,817	2,935	5,035
56	1.0417	0	1,255	0	0	0	0	1,255	1,307	2,242
57	1.0500	0	107	0	0	0	0	107	113	194
58	1.2143	0	41	0	0	0	0	41	50	86
59	4.0476	0	4	18	0	0	266	288	1,164	1,997
60	1.0000	45	298	0	0	0	0	343	343	588
61	1.1951	0	45	0	0	0	0	45	54	93
62	1.2143	0	73	34	0	0	0	107	130	223
63	1.1951	0	39	0	0	0	39	78	93	160

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
64	4.0476	0	3	2	0	0	0	5	20	34
65	1.0417	0	153	0	0	0	0	153	160	274
66	3.6290	0	7	0	0	0	0	7	24	41
67	1.0000	0	0	93	0	0	0	93	93	160
68	4.0476	0	0	0	0	0	10	10	39	67
69	1.0417	0	65	0	0	0	0	65	68	117
70	1.1951	0	7	0	0	0	0	7	9	15
71	1.1951	0	35	0	0	0	0	35	41	70
72	1.0000	0	0	0	0	0	191	191	191	328
73	1.2143	0	0	0	0	0	529	529	643	1,103
74	4.0476	0	0	0	0	0	0	0	0	0
75	3.6290	0	0	13	0	0	112	125	454	779
76	1.2143	0	0	0	0	0	10	10	12	21
77	1.0417	0	0	0	0	0	0	0	0	0
78	4.0476	0	3	0	0	0	0	3	14	24
79	4.0476	0	0	0	0	0	0	0	0	0

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
80	1.0500	0	59	0	0	0	4	63	66	113
81	1.0417	0	158	0	0	0	463	621	647	1,110
82	1.1951	0	0	0	0	0	54	54	64	110
83	1.1951	0	155	0	0	0	66	220	263	451
84	1.2143	0	6	0	0	0	0	6	7	12
85	4.0476	0	0	0	0	0	0	0	0	0
86	1.1951	0	1	0	0	0	6	7	9	15
87	1.1951	0	73	0	0	0	0	73	87	149
88	1.2143	0	53	13	0	0	0	66	80	137
89	1.1951	0	11	0	0	0	0	11	13	22
90	1.1951	0	6	6	0	0	1	13	16	27
91	1.0500	0	36	0	5	0	35	75	79	136
92	1.0500	0	2	0	0	0	0	2	2	3
93	1.1951	0	68	0	0	0	10	77	92	158
94	3.6290	0	5	0	0	0	1	6	22	38
95	4.0476	0	14	0	0	0	0	14	56	96

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
96	1.1951	0	0	0	0	0	0	0	0	0
97	4.0476	0	0	0	0	0	0	0	0	0
98	1.1951	0	5	0	0	0	0	5	5	9
99	1.0000	4	366	0	0	0	1,775	2,144	2,144	3,678
100	4.0476	0	244	0	0	0	1,052	1,296	5,244	8,996
101	1.2143	0	60	7	0	0	0	67	81	139
102	1.2143	0	0	0	0	0	2	2	2	3
103	1.0000	0	0	0	0	0	47	47	47	81
104	1.1951	0	0	0	0	0	207	207	248	425
105	1.0000	34	19	0	0	0	188	241	241	413
106	1.1951	0	1	0	0	0	0	1	1	2
107	4.0476	0	0	1	0	0	0	1	3	5
108	3.6290	0	88	0	0	0	0	88	318	546
109	1.0500	0	23	0	0	0	0	23	24	41
110	1.2143	0	1	1	0	0	0	1	2	3
111	1.0500	0	5	10	0	4	0	19	20	34

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
112	3.6290	0	0	0	0	0	0	0	1	2
113	4.0476	0	6	0	0	0	0	6	26	45
114	1.0500	0	10	0	0	0	803	813	853	1,463
115	3.6290	0	364	0	0	0	0	364	1,320	2,265
116	1.0500	0	95	0	0	0	0	95	100	172
117	1.1951	0	0	0	0	0	4	4	5	9
118	1.1951	0	0	0	0	0	452	452	540	926
119	1.0417	0	18	0	0	0	376	395	411	705
120	1.1951	0	315	0	0	0	2	316	378	648
121	4.0476	0	1	0	0	0	0	1	2	3
122	3.6290	0	5	0	0	0	0	5	16	27
123	1.2143	0	12	0	0	0	0	12	14	24
124	1.1951	0	28	0	0	0	0	28	34	58
125	2.1667	0	40	0	0	0	0	40	87	149
126	8.8571	0	58	0	0	0	0	58	511	877
127	8.8571	0	0	0	0	0	0	0	0	0

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
128	1.8571	0	2	5	0	0	10	17	31	53
129	2.1667	0	1	0	0	0	0	1	2	3
130	7.6154	0	14	0	0	0	0	14	103	177
131	1.0000	434	187	0	0	0	0	621	621	1,065
132	1.0000	0	0	0	0	0	0	0	0	0
133	1.0000	0	87	0	0	0	2	89	89	153
134	8.8571	0	68	2	0	0	46	116	1,026	1,760
135	2.1667	0	0	0	0	0	3,783	3,783	8,198	14,064
136	2.1667	0	11	0	0	0	0	11	23	39
137	7.6154	0	0	0	0	0	777	777	5,920	10,156
138	1.8571	0	34	0	0	0	0	34	63	108
139	8.8571	0	0	0	0	0	0	0	0	0
140	1.8571	0	0	0	0	0	0	0	0	0
141	1.0000	0	550	0	0	0	0	550	550	944
142	1.0000	0	480	0	0	0	2,096	2,576	2,576	4,419
143	1.8571	0	0	0	0	0	1	1	1	2

TABLE F-1. FACILITY WASTE GENERATION (PROPOSED K180 WASTEWATERS; METRIC TONS)

Waste Generation Facility ID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted	Weighted	Universe
								Total ²	Total ³	Total ⁴
144	1.8571	0	0	0	0	0	70	70	130	223
145	2.1667	0	8	0	0	0	0	8	17	29
146	7.6154	0	0	0	0	0	34	34	258	443
147	8.8571	0	0	0	0	0	0	0	0	0
148	2.2500	0	73	0	0	0	77	150	337	578
149	2.2500	0	39	0	0	0	44	83	188	323
150	8.8571	0	0	0	0	0	4	4	35	60
151	8.8571	0	0	0	0	0	25	25	218	374
Total		524	9,805	260	61	4	15,465	26,118	46,237	79,321

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¹ Model facility weighting is expressed to up to four decimal places

² Numbers may not add due to rounding

³ Unweighted total times weighting factor to arrive at the sample universe total

⁴ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the universe total

⁵ The wastewater generated/facility included in the above table are as follows: Hazardous Caustic Cleaning Residual (HCL), Hazardous Solvent Cleaning Residual (HSL), Hazardous Water Cleaning Residual (HWL), Nonhazardous Caustic Cleaning Residual (NCL), Nonhazardous Solvent Cleaning Residual (NSL), Nonhazardous Water Cleaning Residual (NWL).

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
1	3.6290	0	0	4	0	0	0	0	0	0	0	0	4	13	22
2	3.6290	0	0	0	0	0	0	0	4	0	0	0	4	13	22
3	1.0500	0	0	10	0	1	0	1	0	0	0	0	12	12	21
4	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1.0417	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1.2143	0	0	0	0	0	0	0	1	0	0	0	1	1	2
9	1.0500	0	18	1	27	0	0	0	0	0	0	0	47	49	84
10	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1.0000	0	0	34	16	0	0	3	80	0	328	0	461	461	791
12	1.1951	0	0	0	1	6	0	0	0	0	0	0	7	9	15
13	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1.0417	0	0	0	0	0	0	0	0	0	0	5	5	5	9
15	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1.2143	0	0	4	0	0	0	0	0	0	0	0	4	5	9

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
17	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	1	2
18	1.0417	0	0	0	0	0	0	1	0	0	0	0	1	1	2
19	1.0417	0	0	0	0	0	0	6	0	0	2	87	95	99	170
20	1.0417	0	0	17	0	0	0	0	17	0	0	0	34	36	62
21	3.6290	0	0	3	0	0	0	0	0	0	0	0	3	10	17
22	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	1.2143	0	0	1	0	0	0	0	0	0	0	0	1	1	2
24	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1.0000	0	0	0	0	0	0	3	0	0	0	0	3	3	5
26	3.6290	0	0	0	0	0	0	0	0	0	2	0	2	7	12
27	1.1951	0	0	0	3	0	0	0	0	0	0	20	23	27	46
28	1.2143	0	0	25	0	0	0	0	0	0	0	0	25	30	51
29	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	1.1951	0	0	0	0	0	0	1	0	0	27	0	28	33	57
31	1.1951	0	0	0	0	0	0	16	0	0	0	0	16	19	33
32	1.0417	0	0	5	0	0	0	0	0	0	0	0	5	5	9

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
33	4.0476	0	0	0	0	0	0	0	9	0	0	0	9	35	60
34	1.1951	0	0	0	0	0	0	0	0	0	17	0	18	21	36
35	1.1951	0	0	3	3	0	0	0	0	0	0	0	6	7	12
36	4.0476	0	0	0	10	0	0	0	0	0	0	0	10	41	70
37	1.1951	0	0	4	0	0	0	0	0	0	0	0	4	5	9
38	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	1.0500	0	0	0	0	0	0	9	0	0	0	23	32	33	57
40	1.0500	0	0	0	0	0	0	0	2	0	0	0	2	2	3
41	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	1.0000	0	0	0	2	0	0	0	0	0	0	0	2	2	3
43	3.6290	0	0	0	0	0	0	1	1	0	0	0	2	6	10
44	4.0476	0	0	0	0	0	0	0	54	0	0	0	54	218	374
45	1.0000	0	0	7	0	0	0	5	26	0	0	0	38	38	65
46	1.1951	0	0	0	3	0	0	0	0	0	0	0	3	3	5
47	1.1951	0	0	43	0	0	0	2	47	0	0	0	92	110	189
48	3.6290	0	0	7	0	0	0	0	0	0	0	0	7	26	45

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
49	1.1951	0	0	0	0	0	0	3	0	0	0	11	14	17	29
50	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	1.1951	0	0	85	0	0	0	5	0	0	0	0	90	108	185
52	1.2143	0	0	0	0	0	0	0	6	0	0	0	6	7	12
53	1.1951	0	0	0	0	0	0	892	0	0	247	0	1,139	1,361	2,335
54	1.0000	0	0	5	0	0	0	0	2	0	0	0	7	7	12
55	1.0417	0	0	139	1,406	0	0	0	12	0	0	0	1,557	1,622	2,783
56	1.0417	0	0	34	0	0	0	0	0	0	0	0	34	36	62
57	1.0500	0	0	0	0	0	0	1	0	0	0	0	1	1	2
58	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	1.0000	1	0	6	17	0	0	0	0	0	0	0	25	25	43
61	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	1.2143	0	0	0	43	0	0	0	0	0	0	0	43	53	91
63	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTs	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
65	1.0417	0	0	423	0	0	0	0	0	0	0	0	423	440	755
66	3.6290	0	0	0	3	0	0	0	0	0	0	0	3	10	17
67	1.0000	68	0	43	84	0	0	6	19	0	0	0	219	219	376
68	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	1	2
69	1.0417	0	0	16	0	0	0	0	0	0	0	0	16	16	27
70	1.1951	0	0	0	5	0	0	2	0	0	1	0	8	9	15
71	1.1951	0	0	0	0	0	0	1	0	0	0	0	1	1	2
72	1.0000	0	0	20	0	0	0	9	0	0	0	0	29	29	50
73	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	4.0476	0	0	5	3	0	0	0	3	0	0	0	11	44	75
75	3.6290	0	0	68	76	0	0	0	0	0	0	0	143	521	894
76	1.2143	0	0	0	0	0	0	0	0	0	13	0	13	16	27
77	1.0417	0	0	11	0	0	0	0	0	0	0	0	11	12	21
78	4.0476	0	0	5	0	0	0	0	0	0	0	0	5	20	34
79	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	1.0500	0	0	17	0	0	0	5	0	0	0	0	22	24	41

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
81	1.0417	0	0	0	0	0	0	1	51	31	0	0	83	87	149
82	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	1.1951	0	0	11	0	0	0	0	0	0	0	0	11	14	24
84	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	4.0476	0	0	0	1	0	0	0	0	0	0	0	2	7	12
86	1.1951	0	0	0	0	0	0	0	0	0	0	0	1	1	2
87	1.1951	0	0	71	0	0	0	0	0	0	0	0	71	85	146
88	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	1	2
89	1.1951	0	0	0	11	0	0	2	0	0	0	0	13	16	27
90	1.1951	0	0	2	12	0	0	1	1	0	0	0	16	19	33
91	1.0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	1.0500	0	0	6	0	0	0	0	0	0	0	0	6	7	12
93	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	3.6290	0	0	3	5	0	0	0	1	0	0	0	9	32	55
95	4.0476	0	0	0	2	0	0	0	0	0	0	0	2	10	17
96	1.1951	0	0	0	17	0	0	0	1	0	30	0	49	59	101

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
97	4.0476	0	0	0	4	0	0	0	0	0	0	0	4	18	31
98	1.1951	0	0	0	0	0	0	0	0	0	0	85	85	101	173
99	1.0000	0	0	114	54	0	0	0	14	0	0	0	182	182	312
100	4.0476	0	0	6	65	0	0	19	124	0	88	166	468	1,894	3,249
101	1.2143	0	0	1	0	0	0	0	0	0	0	0	1	1	2
102	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	1	2
103	1.0000	3	0	151	299	0	0	0	29	0	0	0	483	483	829
104	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	1.0000	9	0	108	0	0	0	3	124	0	0	0	243	243	417
106	1.1951	0	0	0	1	18	0	0	0	0	0	0	18	22	38
107	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	1.0500	0	0	7	8	0	0	0	0	0	0	0	15	16	27
110	1.2143	0	0	5	0	0	0	0	0	0	0	0	5	6	10
111	1.0500	0	0	62	0	0	0	0	31	0	0	0	93	98	168
112	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
113	4.0476	0	0	1	0	0	0	0	0	0	0	0	1	4	7
114	1.0500	0	0	20	0	0	0	0	14	0	0	0	33	35	60
115	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	1.0500	0	1	13	55	0	0	0	0	0	0	0	69	73	125
117	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	1.1951	0	0	0	0	0	0	0	0	0	0	29	29	35	60
119	1.0417	0	0	41	0	0	0	1	14	0	0	27	83	86	148
120	1.1951	0	0	0	0	0	0	2	0	0	0	0	2	2	3
121	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	1.2143	0	0	0	0	0	0	0	21	0	0	0	21	26	45
124	1.1951	0	0	5	1	0	0	0	1	0	0	0	7	8	14
125	2.1667	0	0	0	17	0	0	0	0	0	0	0	17	37	63
126	8.8571	0	0	12	39	0	1	0	4	0	3	0	59	525	901
127	8.8571	0	0	0	0	0	0	0	0	0	4	0	4	34	58
128	1.8571	0	0	9	18	0	0	0	8	0	0	0	36	67	115

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
129	2.1667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	7.6154	0	0	0	0	0	0	0	13	0	0	0	13	103	177
131	1.0000	15	19	102	860	0	0	0	0	0	0	0	996	996	1,709
132	1.0000	0	0	0	11	0	0	9	0	0	0	4	24	24	41
133	1.0000	0	0	94	3	0	0	0	0	0	0	0	97	97	166
134	8.8571	0	0	2	2	0	0	0	1	0	0	0	5	46	79
135	2.1667	0	0	0	0	0	0	27	14	0	5	0	45	98	168
136	2.1667	0	0	14	13	0	0	0	0	0	0	0	27	59	101
137	7.6154	0	0	0	0	0	0	79	12	0	0	0	91	694	1,191
138	1.8571	0	0	0	8	0	0	1	0	0	0	0	9	17	29
139	8.8571	0	0	0	0	0	0	0	0	0	0	0	0	2	3
140	1.8571	1	0	3	5	0	0	0	0	0	0	0	10	18	31
141	1.0000	0	0	162	0	0	0	2	0	0	0	0	165	165	283
142	1.0000	0	0	96	116	0	0	42	108	0	1,814	454	2,630	2,630	4,512
143	1.8571	0	0	0	0	0	0	0	0	0	2	0	2	4	7
144	1.8571	0	0	99	0	0	0	0	3	0	0	0	101	188	323

Table F-2. Facility Waste Generation (PROPOSED K179 Nonwastewaters; Metric Tons)

Waste Generation Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted	Weighted	Universe
													Total ²	Total ³	Total ⁴
145	2.1667	0	0	1	2	0	0	0	10	0	0	5	18	40	69
146	7.6154	0	0	0	0	0	0	0	0	0	0	1	1	5	9
147	8.8571	0	0	0	0	0	0	1	0	0	0	0	1	5	9
148	2.2500	0	0	13	3	0	0	1	75	0	0	0	93	209	359
149	2.2500	0	0	58	0	0	0	1	8	0	0	9	77	172	295
150	8.8571	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151	8.8571	0	0	1	0	0	0	0	3	0	0	0	4	39	67
Total		98	38	2,341	3,336	25	1	1,163	965	32	2,585	927	11,510	15,932	27,336

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¹ Model facility weighting is expressed to up to four decimal places

² Numbers may not add due to rounding

³ Unweighted total times weighting factor to arrive at the sampling universe

⁴ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total

⁵ The solid waste generated/facility included in the above table are as follows: Hazardous Caustic Cleaning Residual Sludge (HCS), Hazardous Emission Control Dust (HED), Hazardous Off-Specification Production Residual (HOR), Hazardous Solvent Cleaning Residual Sludge (HSS), Hazardous Water Cleaning Residual Sludge (HWS), Nonhazardous Caustic Cleaning Residual Sludge (NCS), Nonhazardous Emission Control Dust (NED), Nonhazardous Off-Specification Production Residual (NOR), Nonhazardous Solvent Cleaning Residual Sludge (NSS),

TABLE F-3. NON-WASTEWATER BASELINE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Total ²	Weighted Total ³	Universe Total ⁴
1	3.6290	0	0	1,791	0	0	0	0	0	0	7	0	1,798	6,525	11,205
2	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1.0500	0	0	4,970	0	624	0	155	0	0	0	0	5,749	6,036	10,366
4	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1.0417	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1.2143	0	0	140	0	0	0	0	804	0	0	0	944	1,146	1,968
9	1.0500	0	13,202	848	19,543	0	0	0	0	0	0	0	33,593	35,273	60,575
10	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1.0000	0	0	17,386	8,275	0	0	805	8,590	0	35,381	0	70,437	70,437	120,962
12	1.1951	0	0	0	329	3,289	0	0	0	0	0	0	3,617	4,323	7,424
13	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1.0417	0	0	0	0	0	0	0	0	0	0	2,138	2,138	2,227	3,824
15	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1.2143	0	0	2,153	0	0	0	0	0	0	0	0	2,153	2,615	4,491
17	4.0476	0	0	179	0	0	0	0	0	0	0	0	179	726	1,247
18	1.0417	0	0	230	0	0	0	217	0	0	0	0	447	466	800
19	1.0417	0	0	0	0	0	0	1,431	0	0	1,252	6,158	8,841	9,210	15,816
20	1.0417	0	0	8,669	0	0	0	0	9,017	0	0	0	17,685	18,423	31,638
21	3.6290	0	0	1,446	0	0	0	0	0	0	0	0	1,446	5,248	9,012
22	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Nonhazardous Water Cleaning Residual Sludge (NWS), Nonhazardous Wastewater Treatment Sludge (NWTS).

TABLE F-3. NON-WASTEWATER BASELINE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Total ²	Weighted Total ³	Universe Total ⁴
23	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1.0000	0	0	0	0	0	0	716	0	0	0	0	716	716	1,230
26	3.6290	0	0	0	0	0	0	0	0	0	464	0	464	1,686	2,895
27	1.1951	0	0	0	1,282	0	0	0	0	0	0	14,355	15,637	18,688	32,093
28	1.2143	0	0	12,435	0	0	0	70	0	0	0	0	12,504	15,184	26,076
29	4.0476	0	0	0	0	0	0	0	0	0	12	0	12	47	81
30	1.1951	0	0	0	0	0	0	269	0	0	1,909	0	2,178	2,603	4,470
31	1.1951	0	0	0	0	0	0	4,076	0	0	0	0	4,076	4,871	8,365
32	1.0417	0	0	4,091	326	0	0	0	0	0	0	0	4,418	4,602	7,903
33	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	1.1951	0	0	0	0	0	0	262	0	0	12,364	0	12,627	15,090	25,914
35	1.1951	0	0	1,328	1,482	0	0	0	0	0	0	0	2,810	3,358	5,767
36	4.0476	0	0	0	5,175	0	0	0	0	0	0	0	5,175	20,947	35,973
37	1.1951	0	0	1,826	249	0	0	0	0	0	0	0	2,076	2,481	4,261
38	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	1.0500	0	0	0	0	0	0	2,322	0	0	0	1,610	3,933	4,129	7,091
40	1.0500	0	0	0	0	0	0	0	1,613	0	0	0	1,613	1,694	2,909
41	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	1.0000	0	0	0	1,464	0	0	0	0	0	0	0	1,464	1,464	2,514
43	3.6290	0	0	0	0	0	0	233	198	0	0	0	431	1,565	2,688
44	4.0476	0	0	0	0	0	0	0	27,309	0	0	0	27,309	110,537	189,827
45	1.0000	0	0	3,517	0	0	0	1,253	8,610	0	0	0	13,380	13,380	22,978
46	1.1951	0	0	0	2,455	0	0	0	0	0	0	0	2,455	2,934	5,039
47	1.1951	0	0	21,824	0	0	0	579	2,761	0	0	0	25,163	30,073	51,645
48	3.6290	0	0	3,647	0	0	0	0	0	0	0	0	3,647	13,236	22,730

TABLE F-3. NON-WASTEWATER BASELINE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Total ²	Weighted Total ³	Universe Total ⁴
49	1.1951	0	0	0	0	0	0	697	0	0	0	2,710	3,407	4,072	6,993
50	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	1.1951	0	0	61,012	0	0	0	1,303	0	0	0	0	62,315	74,473	127,894
52	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	1.1951	0	0	0	0	0	0	63,324	0	0	17,536	0	80,860	96,635	165,953
54	1.0000	0	0	4,500	0	0	0	0	1,841	0	0	0	6,341	6,341	10,889
55	1.0417	0	0	70,283	712,912	0	0	0	6,809	0	0	0	790,004	822,947	1,413,259
56	1.0417	0	0	17,355	0	0	0	0	0	0	0	0	17,355	18,079	31,047
57	1.0500	0	0	0	0	0	0	141	0	0	0	0	141	148	254
58	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	1.0000	1,215	0	4,739	8,601	0	0	0	0	0	0	0	14,555	14,555	24,996
61	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	1.2143	0	0	0	21,946	0	0	0	0	0	0	0	21,946	26,649	45,765
63	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	1.0417	0	0	214,335	0	0	0	0	0	0	0	0	214,335	223,273	383,430
66	3.6290	0	0	0	1,445	0	0	0	0	0	0	0	1,445	5,244	9,006
67	1.0000	48,872	0	21,618	42,499	0	0	1,553	9,578	0	0	0	124,120	124,120	213,153
68	4.0476	0	0	0	0	0	0	0	0	9	58	0	67	273	469
69	1.0417	0	0	7,969	0	0	0	0	0	0	0	0	7,969	8,301	14,255
70	1.1951	0	0	0	2,530	0	0	402	0	0	551	0	3,484	4,163	7,149
71	1.1951	0	0	0	0	0	0	232	0	0	0	0	232	278	477
72	1.0000	0	0	14,235	0	0	0	2,207	0	0	0	0	16,442	16,442	28,236
73	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE F-3. NON-WASTEWATER BASELINE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Total ²	Weighted Total ³	Universe Total ⁴
74	4.0476	0	0	1,774	668	0	0	0	887	0	0	0	3,329	13,476	23,143
75	3.6290	0	0	34,404	38,325	0	0	0	0	0	0	0	72,729	263,934	453,258
76	1.2143	0	0	0	0	0	0	0	0	0	3,367	0	3,367	4,089	7,022
77	1.0417	0	0	5,703	0	0	0	0	0	0	0	0	5,703	5,941	10,203
78	4.0476	0	0	3,452	0	0	0	0	0	0	0	0	3,452	13,973	23,996
79	4.0476	0	5	55	0	0	0	0	0	0	0	0	60	242	416
80	1.0500	236	0	9,187	450	0	0	3,412	0	0	0	0	13,285	13,950	23,957
81	1.0417	0	0	0	0	0	0	313	3,594	2,217	0	0	6,124	6,380	10,956
82	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	1.1951	0	0	5,740	0	0	0	0	0	0	0	0	5,740	6,860	11,781
84	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	4.0476	0	0	0	617	0	0	0	0	0	0	0	617	2,497	4,288
86	1.1951	0	6	0	184	0	0	93	0	0	0	0	283	338	580
87	1.1951	0	0	35,986	0	0	0	0	0	0	0	0	35,986	43,007	73,857
88	1.2143	0	0	230	0	0	0	0	0	0	0	0	230	280	481
89	1.1951	0	0	0	5,588	0	0	604	0	0	0	0	6,192	7,400	12,708
90	1.1951	0	0	2,209	11,047	0	0	139	736	0	0	0	14,132	16,889	29,004
91	1.0500	0	0	0	0	0	0	16	0	0	0	0	16	17	29
92	1.0500	0	0	3,230	0	0	0	0	0	0	0	0	3,230	3,391	5,823
93	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	3.6290	0	0	2,536	4,091	0	0	0	1,236	0	0	0	7,863	28,535	49,004
95	4.0476	0	0	0	1,198	0	0	0	0	0	0	0	1,198	4,850	8,329
96	1.1951	0	0	248	8,645	0	0	0	383	0	3,444	0	12,720	15,202	26,107
97	4.0476	0	0	0	2,207	0	0	0	0	0	0	0	2,207	8,933	15,341
98	1.1951	0	0	0	0	0	0	0	0	0	0	6,028	6,028	7,204	12,372
99	1.0000	0	0	57,595	27,559	0	0	0	8,173	0	0	0	93,328	93,328	160,274

TABLE F-3. NON-WASTEWATER BASELINE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Total ²	Weighted Total ³	Universe Total ⁴
100	4.0476	0	0	2,834	32,947	0	0	1,360	9,549	0	6,271	11,787	64,748	262,076	450,067
101	1.2143	0	0	274	0	0	0	0	0	0	0	0	274	333	572
102	1.2143	0	0	0	0	0	0	0	0	0	0	111	111	135	232
103	1.0000	1,656	0	76,581	151,736	0	0	74	12,193	0	0	0	242,240	242,240	416,002
104	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	1.0000	10,720	0	54,721	0	0	0	644	62,724	0	0	0	128,810	128,810	221,207
106	1.1951	0	0	0	368	8,933	0	0	0	0	0	0	9,301	11,116	19,090
107	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	1.0500	0	0	3,674	3,870	0	0	0	0	0	0	0	7,544	7,922	13,605
110	1.2143	0	0	2,639	0	0	0	0	0	0	0	0	2,639	3,204	5,502
111	1.0500	0	0	34,590	0	0	0	0	15,599	0	0	0	50,188	52,698	90,499
112	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	4.0476	0	0	549	0	0	0	0	0	0	0	0	549	2,222	3,816
114	1.0500	0	0	10,018	0	0	0	0	12,234	0	0	0	22,253	23,365	40,125
115	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	1.0500	0	204	6,792	27,872	0	0	0	0	0	0	0	34,868	36,612	62,874
117	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	1.1951	0	0	0	0	0	0	0	0	0	0	2,093	2,093	2,502	4,297
119	1.0417	0	0	20,697	0	0	0	292	6,899	0	0	1,930	29,818	31,062	53,343
120	1.1951	0	0	0	0	0	0	464	0	0	0	0	464	555	953
121	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	1.1951	0	0	2,429	331	0	0	0	442	97	0	0	3,299	3,943	6,771

TABLE F-3. NON-WASTEWATER BASELINE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Total ²	Weighted Total ³	Universe Total ⁴
125	2.1667	0	0	0	8,771	0	0	0	0	0	0	0	8,771	19,005	32,638
126	8.8571	0	0	6,094	19,691	0	570	0	4,034	0	2,378	0	32,767	290,220	498,399
127	8.8571	0	0	0	0	0	0	0	0	0	970	0	970	8,592	14,755
128	1.8571	0	0	4,764	9,152	0	0	0	2,704	0	79	0	16,699	31,011	53,256
129	2.1667	0	0	0	23	0	0	0	0	0	0	0	23	50	86
130	7.6154	0	0	0	0	0	0	0	4,717	0	0	0	4,717	35,921	61,688
131	1.0000	13,708	2,037	73,182	435,909	0	0	0	0	0	0	0	524,836	524,836	901,308
132	1.0000	0	0	0	7,483	0	0	2,328	0	0	0	1,035	10,846	10,846	18,626
133	1.0000	0	0	67,631	1,380	0	0	22	0	0	0	0	69,033	69,033	118,551
134	8.8571	0	0	1,202	1,149	0	0	0	177	0	0	0	2,528	22,390	38,451
135	2.1667	0	0	0	0	0	0	1,932	4,436	0	1,161	0	7,530	16,314	28,016
136	2.1667	0	0	7,096	6,773	0	0	0	0	0	0	0	13,869	30,050	51,605
137	7.6154	0	0	0	0	0	0	5,636	3,845	0	0	0	9,481	72,198	123,987
138	1.8571	0	0	0	4,291	0	0	139	0	0	0	0	4,430	8,228	14,130
139	8.8571	0	0	0	0	0	0	0	0	58	0	0	58	514	883
140	1.8571	397	0	1,753	2,688	0	0	0	0	0	0	0	4,838	8,984	15,428
141	1.0000	0	0	82,313	0	0	0	639	0	0	0	0	82,951	82,951	142,453
142	1.0000	0	0	69,015	82,818	0	0	3,008	7,665	0	128,820	32,205	323,531	323,531	555,604
143	1.8571	0	0	0	0	0	0	0	0	0	523	0	523	970	1,666
144	1.8571	0	0	49,983	0	0	0	0	1,989	0	0	0	51,972	96,518	165,752
145	2.1667	0	0	460	1,045	0	0	77	0	0	0	1,300	2,882	6,243	10,721
146	7.6154	0	0	0	0	0	0	0	0	0	0	162	162	1,235	2,121
147	8.8571	0	0	0	0	0	0	139	0	0	0	0	139	1,234	2,119
148	2.2500	0	0	6,785	1,660	0	0	261	5,339	0	0	0	14,046	31,605	54,276

TABLE F-3. NON-WASTEWATER BASELINE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Total ²	Weighted Total ³	Universe Total ⁴
149	2.2500	0	0	29,182	0	0	0	383	4,147	0	0	552	34,264	77,093	132,393
150	8.8571	0	0	0	0	0	0	0	0	0	7	0	7	63	108
151	8.8571	0	0	665	0	0	0	0	1,518	0	22	0	2,205	19,527	33,534
Total		76,805	15,454	1,280,801	1,731,053	12,845	570	104,222	252,351	2,382	216,577	84,175	3,777,234	5,036,606	8,649,440

¹ Model facility weighting factor is expressed up to four decimal places

² Numbers may not add due to rounding

³ Unweighted total times weighting factor to arrive at the sampling universe

⁴ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total

⁵ The solid waste generated/facility included in the above table are as follows: Hazardous Caustic Cleaning Residual Sludge (HCS), Hazardous Emission Control Dust (HED), Hazardous Off-Specification Production Residual (HOR), Hazardous Solvent Cleaning Residual Sludge (HSS), Hazardous Water Cleaning Residual Sludge (HWS), Nonhazardous Caustic Cleaning Residual Sludge (NCS), Nonhazardous Emission Control Dust (NED), Nonhazardous Off-Specification Production Residual (NOR), Nonhazardous Solvent Cleaning Residual Sludge (NSS), Nonhazardous Water Cleaning Residual Sludge (NWS), Nonhazardous Wastewater Treatment Sludge (NWTS).

TABLE F-4. NON-WASTEWATER COMPLIANCE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total	Universe Total
1	3.6290	0	0	1,791	0	0	0	0	0	0	20	0	1,811	6,548	11,250
2	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1.0500	0	0	4,970	0	624	0	444	0	0	0	0	6,038	6,188	10,630
4	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1.0417	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1.2143	0	0	140	0	0	0	0	804	0	0	0	944	1,146	1,970
9	1.0500	0	13,645	848	20,198	0	0	0	0	0	0	0	34,691	35,849	61,560
10	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1.0000	0	0	17,386	8,275	0	0	2,161	56,949	0	242,423	0	327,195	198,816	341,430
12	1.1951	0	0	0	329	3,289	0	0	0	0	0	0	3,617	4,323	7,420
13	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1.0417	0	0	0	0	0	0	0	0	0	0	3,169	3,169	2,764	4,750
15	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1.2143	0	0	2,153	0	0	0	0	0	0	0	0	2,153	2,615	4,490
17	4.0476	0	0	179	0	0	0	0	0	0	0	0	179	726	1,250
18	1.0417	0	0	230	0	0	0	621	0	0	0	0	851	676	1,160
19	1.0417	0	0	0	0	0	0	4,096	0	0	1,252	64,187	69,535	40,822	70,110
20	1.0417	0	0	8,669	0	0	0	0	15,340	0	0	0	24,009	21,716	37,290
21	3.6290	0	0	1,446	0	0	0	0	0	0	0	0	1,446	5,248	9,010
22	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE F-4. NON-WASTEWATER COMPLIANCE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total	Universe Total
24	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1.0000	0	0	0	0	0	0	2,050	0	0	0	0	2,050	1,383	2,380
26	3.6290	0	0	0	0	0	0	0	0	0	1,330	0	1,330	3,256	5,590
27	1.1951	0	0	0	1,282	0	0	0	0	0	0	14,836	16,118	18,976	32,590
28	1.2143	0	0	12,435	0	0	0	199	0	0	0	0	12,634	15,263	26,210
29	4.0476	0	0	0	0	0	0	0	0	0	33	0	33	91	160
30	1.1951	0	0	0	0	0	0	770	0	0	19,898	0	20,668	13,652	23,440
31	1.1951	0	0	0	0	0	0	11,670	0	0	0	0	11,670	9,409	16,160
32	1.0417	0	0	4,091	335	0	0	0	0	0	0	0	4,427	4,606	7,910
33	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	1.1951	0	0	0	0	0	0	272	0	0	12,801	0	13,073	15,356	26,370
35	1.1951	0	0	1,328	1,482	0	0	0	0	0	0	0	2,810	3,358	5,770
36	4.0476	0	0	0	5,175	0	0	0	0	0	0	0	5,175	20,947	35,970
37	1.1951	0	0	1,826	249	0	0	0	0	0	0	0	2,076	2,481	4,260
38	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	1.0500	0	0	0	0	0	0	6,650	0	0	0	16,783	23,433	14,366	24,670
40	1.0500	0	0	0	0	0	0	0	1,613	0	0	0	1,613	1,694	2,910
41	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	1.0000	0	0	0	1,503	0	0	0	0	0	0	0	1,503	1,484	2,550
43	3.6290	0	0	0	0	0	0	667	549	0	0	0	1,215	2,988	5,130
44	4.0476	0	0	0	0	0	0	0	27,309	0	0	0	27,309	110,537	189,830
45	1.0000	0	0	3,517	0	0	0	3,588	23,823	0	0	0	30,928	22,154	38,050
46	1.1951	0	0	0	2,520	0	0	0	0	0	0	0	2,520	2,973	5,110

TABLE F-4. NON-WASTEWATER COMPLIANCE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total	Universe Total
47	1.1951	0	0	21,824	0	0	0	1,657	33,501	0	0	0	56,982	49,086	84,300
48	3.6290	0	0	3,647	0	0	0	0	0	0	0	0	3,647	13,236	22,730
49	1.1951	0	0	0	0	0	0	1,995	0	0	0	7,768	9,763	7,870	13,510
50	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	1.1951	0	0	61,012	0	0	0	3,730	0	0	0	0	64,742	75,924	130,380
52	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	1.1951	0	0	0	0	0	0	659,995	0	0	182,766	0	842,761	551,910	947,800
54	1.0000	0	0	4,500	0	0	0	0	1,841	0	0	0	6,341	6,341	10,890
55	1.0417	0	0	70,283	712,912	0	0	0	7,647	0	0	0	790,842	823,384	1,414,010
56	1.0417	0	0	17,355	0	0	0	0	0	0	0	0	17,355	18,079	31,050
57	1.0500	0	0	0	0	0	0	404	0	0	0	0	404	286	490
58	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	1.0000	1,247	0	4,739	8,601	0	0	0	0	0	0	0	14,587	14,571	25,020
61	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	1.2143	0	0	0	21,946	0	0	0	0	0	0	0	21,946	26,649	45,760
63	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	1.0417	0	0	214,335	0	0	0	0	0	0	0	0	214,335	223,273	383,430
66	3.6290	0	0	0	1,445	0	0	0	0	0	0	0	1,445	5,244	9,010
67	1.0000	50,510	0	21,618	42,499	0	0	4,169	9,578	0	0	0	128,375	126,248	216,810
68	4.0476	0	0	0	0	0	0	0	0	34	166	0	200	541	930
69	1.0417	0	0	7,969	0	0	0	0	0	0	0	0	7,969	8,301	14,260

TABLE F-4. NON-WASTEWATER COMPLIANCE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total	Universe Total
70	1.1951	0	0	0	2,530	0	0	1,152	0	0	551	0	4,233	4,611	7,920
71	1.1951	0	0	0	0	0	0	665	0	0	0	0	665	536	920
72	1.0000	0	0	14,235	0	0	0	6,319	0	0	0	0	20,554	18,498	31,770
73	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	4.0476	0	0	4,910	2,415	0	0	0	2,455	0	0	0	9,780	26,530	45,560
75	3.6290	0	0	34,404	38,325	0	0	0	0	0	0	0	72,729	263,934	453,260
76	1.2143	0	0	0	0	0	0	0	0	0	9,642	0	9,642	7,898	13,560
77	1.0417	0	0	5,703	0	0	0	0	0	0	0	0	5,703	5,941	10,200
78	4.0476	0	0	3,452	0	0	0	0	0	0	0	0	3,452	13,973	24,000
79	4.0476	0	5	55	0	0	0	0	0	0	0	0	60	242	420
80	1.0500	243	0	9,187	462	0	0	3,533	0	0	0	0	13,424	14,022	24,080
81	1.0417	0	0	0	0	0	0	895	36,245	23,110	0	0	60,251	34,572	59,370
82	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	1.1951	0	0	5,740	0	0	0	0	0	0	0	0	5,740	6,860	11,780
84	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	4.0476	0	0	0	617	0	0	0	0	0	0	0	617	2,497	4,290
86	1.1951	0	17	0	184	0	0	266	0	0	0	0	467	448	770
87	1.1951	0	0	35,986	0	0	0	0	0	0	0	0	35,986	43,007	73,860
88	1.2143	0	0	230	0	0	0	0	0	0	0	0	230	280	480
89	1.1951	0	0	0	5,588	0	0	1,729	0	0	0	0	7,317	8,072	13,860
90	1.1951	0	0	2,209	11,341	0	0	399	736	0	0	0	14,686	17,220	29,570
91	1.0500	0	0	0	0	0	0	17	0	0	0	0	17	17	30
92	1.0500	0	0	3,230	0	0	0	0	0	0	0	0	3,230	3,391	5,820

TABLE F-4. NON-WASTEWATER COMPLIANCE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total	Universe Total
93	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	3.6290	0	0	2,536	4,200	0	0	0	1,236	0	0	0	7,972	28,732	49,340
95	4.0476	0	0	0	1,198	0	0	0	0	0	0	0	1,198	4,850	8,330
96	1.1951	0	0	248	8,645	0	0	0	1,061	0	22,373	0	32,327	26,918	46,230
97	4.0476	0	0	0	2,207	0	0	0	0	0	0	0	2,207	8,933	15,340
98	1.1951	0	0	0	0	0	0	0	0	0	0	62,826	62,826	41,144	70,660
99	1.0000	0	0	57,595	27,559	0	0	0	12,131	0	0	0	97,286	95,307	163,670
100	4.0476	0	0	2,834	32,947	0	0	14,178	89,156	0	65,360	122,851	327,326	793,480	1,362,660
101	1.2143	0	0	274	0	0	0	0	0	0	0	0	274	333	570
102	1.2143	0	0	0	0	0	0	0	0	0	0	319	319	261	450
103	1.0000	1,656	0	76,581	151,736	0	0	199	20,786	0	0	0	250,959	246,600	423,490
104	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	1.0000	10,720	0	54,721	0	0	0	1,845	62,724	0	0	0	130,010	129,410	222,240
106	1.1951	0	0	0	368	8,933	0	0	0	0	0	0	9,301	11,116	19,090
107	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	1.0500	0	0	3,674	3,870	0	0	0	0	0	0	0	7,544	7,922	13,600
110	1.2143	0	0	2,639	0	0	0	0	0	0	0	0	2,639	3,204	5,500
111	1.0500	0	0	34,590	0	0	0	0	15,599	0	0	0	50,188	52,698	90,500
112	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	4.0476	0	0	549	0	0	0	0	0	0	0	0	549	2,222	3,820
114	1.0500	0	0	10,018	0	0	0	0	12,234	0	0	0	22,253	23,365	40,130
115	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE F-4. NON-WASTEWATER COMPLIANCE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total	Universe Total
116	1.0500	0	549	6,792	27,872	0	0	0	0	0	0	0	35,213	36,792	63,180
117	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	1.1951	0	0	0	0	0	0	0	0	0	0	21,818	21,818	14,288	24,540
119	1.0417	0	0	20,697	0	0	0	836	6,899	0	0	20,112	48,545	40,816	70,090
120	1.1951	0	0	0	0	0	0	1,330	0	0	0	0	1,330	1,072	1,840
121	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	1.1951	0	0	2,429	331	0	0	0	442	351	0	0	3,553	4,095	7,030
125	2.1667	0	0	0	8,771	0	0	0	0	0	0	0	8,771	19,005	32,640
126	8.8571	0	0	6,094	19,691	0	585	0	4,034	0	2,462	0	32,866	290,659	499,150
127	8.8571	0	0	0	0	0	0	0	0	0	2,778	0	2,778	16,596	28,500
128	1.8571	0	0	4,764	9,152	0	0	0	7,482	0	226	0	21,624	35,584	61,110
129	2.1667	0	0	0	84	0	0	0	0	0	0	0	84	116	200
130	7.6154	0	0	0	0	0	0	0	11,442	0	0	0	11,442	61,528	105,660
131	1.0000	14,073	13,957	73,182	435,909	0	0	0	0	0	0	0	537,121	530,978	911,860
132	1.0000	0	0	0	7,602	0	0	6,665	0	0	0	2,966	17,233	14,040	24,110
133	1.0000	0	0	67,631	1,380	0	0	62	0	0	0	0	69,073	69,053	118,590
134	8.8571	0	0	1,202	1,149	0	0	0	490	0	0	0	2,841	23,775	40,830
135	2.1667	0	0	0	0	0	0	20,140	12,274	0	3,325	0	35,739	46,874	80,500
136	2.1667	0	0	7,096	6,773	0	0	0	0	0	0	0	13,869	30,050	51,610
137	7.6154	0	0	0	0	0	0	58,740	10,638	0	0	0	69,378	300,270	515,660
138	1.8571	0	0	0	4,291	0	0	399	0	0	0	0	4,690	8,469	14,540

TABLE F-4. NON-WASTEWATER COMPLIANCE COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total	Universe Total
139	8.8571	0	0	0	0	0	0	0	0	210	0	0	210	1,187	2,040
140	1.8571	397	0	1,753	2,688	0	0	0	0	0	0	0	4,838	8,984	15,430
141	1.0000	0	0	82,313	0	0	0	1,829	0	0	0	0	84,141	83,546	143,470
142	1.0000	0	0	69,015	85,594	0	0	31,351	77,297	0	1,342,635	335,659	1,941,550	1,132,540	1,944,930
143	1.8571	0	0	0	0	0	0	0	0	0	1,496	0	1,496	1,874	3,220
144	1.8571	0	0	49,983	0	0	0	0	2,592	0	0	0	52,576	97,078	166,710
145	2.1667	0	0	460	1,045	0	0	219	0	0	0	3,725	5,450	9,026	15,500
146	7.6154	0	0	0	0	0	0	0	0	0	0	465	465	2,388	4,100
147	8.8571	0	0	0	0	0	0	399	0	0	0	0	399	2,384	4,090
148	2.2500	0	0	6,785	1,660	0	0	748	53,845	0	0	0	63,039	86,722	148,930
149	2.2500	0	0	29,182	0	0	0	1,097	4,147	0	0	6,407	40,833	84,484	145,080
150	8.8571	0	0	0	0	0	0	0	0	0	21	0	21	122	210
151	8.8571	0	0	665	0	0	0	0	1,518	0	63	0	2,246	19,709	33,850
TOTAL		78,846	28,171	1,283,936	1,736,940	12,845	585	860,150	626,416	23,705	1,911,621	683,891	7,247,107	7,566,504	12,994,100

¹ Model facility weighting factor is expressed up to four decimal places

² Numbers may not add due to rounding

³ Weighted total is unweighted total times 0.5 plus unweighted total for baseline times 0.5 (to account for the wastes that are not hazardous and managed the same as under baseline) and then multiplied by the weighting factor to arrive at the sampling universe

⁴ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total

⁵ The solid waste generated/facility included in the above table are as follows: Hazardous Caustic Cleaning Residual Sludge (HCS), Hazardous

TABLE F-5. NON-WASTEWATER INCREMENTAL COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
1	3.6290	0	0	0	0	0	0	0	0	0	13	0	13	24	40
2	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1.0500	0	0	0	0	0	0	289	0	0	0	0	289	152	260
4	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1.0417	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	1.0500	0	443	0	655	0	0	0	0	0	0	0	1,098	576	990
10	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1.0000	0	0	0	0	0	0	1,356	48,359	0	207,042	0	256,758	128,379	220,470
12	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	1.0417	0	0	0	0	0	0	0	0	0	0	1,032	1,032	537	920
15	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	1.0417	0	0	0	0	0	0	404	0	0	0	0	404	211	360
19	1.0417	0	0	0	0	0	0	2,666	0	0	0	58,028	60,694	31,612	54,290
20	1.0417	0	0	0	0	0	0	0	6,323	0	0	0	6,323	3,293	5,660
21	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Emission Control Dust (HED), Hazardous Off-Specification Production Residual (HOR), Hazardous Solvent Cleaning Residual Sludge (HSS), Hazardous Water Cleaning Residual Sludge (HWS), Nonhazardous Caustic Cleaning Residual Sludge (NCS), Nonhazardous Emission Control Dust (NED), Nonhazardous Off-Specification Production Residual (NOR), Nonhazardous Solvent Cleaning Residual Sludge (NSS), Nonhazardous Water Cleaning Residual Sludge (NWS), Nonhazardous Wastewater Treatment Sludge (NWTS).

TABLE F-5. NON-WASTEWATER INCREMENTAL COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
22	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1.0000	0	0	0	0	0	0	1,334	0	0	0	0	1,334	667	1,150
26	3.6290	0	0	0	0	0	0	0	0	0	865	0	865	1,570	2,700
27	1.1951	0	0	0	0	0	0	0	0	0	0	481	481	288	490
28	1.2143	0	0	0	0	0	0	130	0	0	0	0	130	79	140
29	4.0476	0	0	0	0	0	0	0	0	0	22	0	22	44	80
30	1.1951	0	0	0	0	0	0	501	0	0	17,989	0	18,490	11,049	18,970
31	1.1951	0	0	0	0	0	0	7,594	0	0	0	0	7,594	4,538	7,790
32	1.0417	0	0	0	9	0	0	0	0	0	0	0	9	5	10
33	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	1.1951	0	0	0	0	0	0	9	0	0	437	0	446	266	460
35	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	1.0500	0	0	0	0	0	0	4,327	0	0	0	15,173	19,500	10,237	17,580
40	1.0500	0	0	0	0	0	0	0	(0)	0	0	0	(0)	(0)	(0)
41	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	1.0000	0	0	0	39	0	0	0	0	0	0	0	39	19	30
43	3.6290	0	0	0	0	0	0	434	350	0	0	0	784	1,423	2,440
44	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	1.0000	0	0	0	0	0	0	2,335	15,213	0	0	0	17,547	8,774	15,070
46	1.1951	0	0	0	65	0	0	0	0	0	0	0	65	39	70

TABLE F-5. NON-WASTEWATER INCREMENTAL COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
47	1.1951	0	0	0	0	0	0	1,078	30,740	0	0	0	31,819	19,013	32,650
48	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	1.1951	0	0	0	0	0	0	1,298	0	0	0	5,058	6,356	3,798	6,520
50	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	1.1951	0	0	0	0	0	0	2,428	0	0	0	0	2,428	1,451	2,490
52	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	1.1951	0	0	0	0	0	0	596,671	0	0	165,231	0	761,902	455,274	781,850
54	1.0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	1.0417	0	0	0	0	0	0	0	838	0	0	0	838	437	750
56	1.0417	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	1.0500	0	0	0	0	0	0	263	0	0	0	0	263	138	240
58	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	1.0000	32	0	0	0	0	0	0	0	0	0	0	32	16	30
61	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	1.0417	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	1.0000	1,638	0	0	0	0	0	2,617	0	0	0	0	4,255	2,127	3,650
68	4.0476	0	0	0	0	0	0	0	0	24	108	0	133	268	460
69	1.0417	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	1.1951	0	0	0	0	0	0	750	0	0	(0)	0	750	448	770

TABLE F-5. NON-WASTEWATER INCREMENTAL COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
71	1.1951	0	0	0	0	0	0	433	0	0	0	0	433	259	440
72	1.0000	0	0	0	0	0	0	4,112	0	0	0	0	4,112	2,056	3,530
73	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	4.0476	0	0	3,135	1,747	0	0	0	1,568	0	0	0	6,450	13,054	22,420
75	3.6290	0	0	0	(0)	0	0	0	0	0	0	0	(0)	(0)	(0)
76	1.2143	0	0	0	0	0	0	0	0	0	6,275	0	6,275	3,810	6,540
77	1.0417	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	1.0500	6	0	0	12	0	0	120	0	0	0	0	139	73	130
81	1.0417	0	0	0	0	0	0	583	32,651	20,893	0	0	54,126	28,192	48,410
82	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	1.1951	0	11	0	0	0	0	173	0	0	0	0	184	110	190
87	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	1.1951	0	0	0	0	0	0	1,125	0	0	0	0	1,125	672	1,150
90	1.1951	0	0	0	294	0	0	260	0	0	0	0	554	331	570
91	1.0500	0	0	0	0	0	0	1	0	0	0	0	1	0	0
92	1.0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	3.6290	0	0	0	109	0	0	0	0	0	0	0	109	198	340
95	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE F-5. NON-WASTEWATER INCREMENTAL COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
96	1.1951	0	0	(0)	0	0	0	0	677	0	18,930	0	19,607	11,716	20,120
97	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	1.1951	0	0	0	0	0	0	0	0	0	0	56,798	56,798	33,940	58,290
99	1.0000	0	0	0	0	0	0	0	3,958	0	0	0	3,958	1,979	3,400
100	4.0476	0	0	0	0	0	0	12,818	79,607	0	59,089	111,064	262,578	531,405	912,590
101	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	1.2143	0	0	0	0	0	0	0	0	0	0	208	208	126	220
103	1.0000	0	0	0	(0)	0	0	125	8,593	0	0	0	8,718	4,359	7,490
104	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	1.0000	0	0	0	0	0	0	1,200	(0)	0	0	0	1,200	600	1,030
106	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	1.0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	1.0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	1.0500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	1.0500	0	344	0	0	0	0	0	0	0	0	0	344	181	310
117	1.1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	1.1951	0	0	0	0	0	0	0	0	0	0	19,724	19,724	11,786	20,240

TABLE F-5. NON-WASTEWATER INCREMENTAL COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
119	1.0417	0	0	0	0	0	0	544	0	0	0	18,183	18,726	9,754	16,750
120	1.1951	0	0	0	0	0	0	865	0	0	0	0	865	517	890
121	4.0476	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	3.6290	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	1.2143	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	1.1951	0	0	0	0	0	0	0	0	254	0	0	254	152	260
125	2.1667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	8.8571	0	0	0	0	0	15	0	0	0	84	0	99	439	750
127	8.8571	0	0	0	0	0	0	0	0	0	1,807	0	1,807	8,005	13,750
128	1.8571	0	0	0	0	0	0	0	4,778	0	147	0	4,925	4,573	7,850
129	2.1667	0	0	0	61	0	0	0	0	0	0	0	61	66	110
130	7.6154	0	0	0	0	0	0	0	6,725	0	0	0	6,725	25,607	43,980
131	1.0000	365	11,920	0	0	0	0	0	0	0	0	0	12,285	6,142	10,550
132	1.0000	0	0	0	119	0	0	4,337	0	0	0	1,931	6,388	3,194	5,480
133	1.0000	0	0	0	0	0	0	40	0	0	0	0	40	20	30
134	8.8571	0	0	0	0	0	0	0	313	0	0	0	313	1,385	2,380
135	2.1667	0	0	0	0	0	0	18,207	7,838	0	2,164	0	28,209	30,560	52,480
136	2.1667	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	7.6154	0	0	0	0	0	0	53,104	6,793	0	0	0	59,897	228,071	391,670
138	1.8571	0	0	0	0	0	0	260	0	0	0	0	260	241	410
139	8.8571	0	0	0	0	0	0	0	0	152	0	0	152	673	1,160
140	1.8571	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	1.0000	0	0	0	0	0	0	1,190	0	0	0	0	1,190	595	1,020
142	1.0000	0	0	0	2,776	0	0	28,343	69,632	0	1,213,815	303,454	1,618,019	809,009	1,389,320

TABLE F-5. NON-WASTEWATER INCREMENTAL COSTS (1999\$/year)

Facility ID	Weighting ¹	HCS	HED	HOR	HSS	HWS	NCS	NED	NOR	NSS	NWS	NWTS	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
143	1.8571	0	0	0	0	0	0	0	0	0	974	0	974	904	1,550
144	1.8571	0	0	0	0	0	0	0	604	0	0	0	604	560	960
145	2.1667	0	0	0	0	0	0	143	0	0	0	2,426	2,568	2,783	4,780
146	7.6154	0	0	0	0	0	0	0	0	0	0	303	303	1,152	1,980
147	8.8571	0	0	0	0	0	0	260	0	0	0	0	260	1,150	1,970
148	2.2500	0	0	0	0	0	0	487	48,506	0	0	0	48,993	55,117	94,650
149	2.2500	0	0	0	0	0	0	714	(0)	0	0	5,855	6,569	7,390	12,690
150	8.8571	0	0	0	0	0	0	0	0	0	13	0	13	59	100
151	8.8571	0	0	0	0	0	0	0	0	0	41	0	41	182	310
TOTAL		2,042	12,718	3,135	5,886	0	15	755,928	374,065	21,323	1,695,044	599,716	3,469,876	2,529,899	4,344,620

¹ Model facility weighting factor is expressed up to four decimal places

² Numbers may not add due to rounding

³ Compliance total-baseline total

⁴ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total

⁵ The solid waste generated/facility included in the above table are as follows: Hazardous Caustic Cleaning Residual Sludge (HCS), Hazardous Emission Control Dust (HED), Hazardous Off-Specification Production Residual (HOR), Hazardous Solvent Cleaning Residual Sludge (HSS), Hazardous Water Cleaning Residual Sludge (HWS), Nonhazardous Caustic Cleaning Residual Sludge (NCS), Nonhazardous Emission Control Dust (NED), Nonhazardous Off-Specification Production Residual (NOR), Nonhazardous Solvent Cleaning Residual Sludge (NSS), Nonhazardous Water Cleaning Residual Sludge (NWS), Nonhazardous Wastewater Treatment Sludge (NWTS).

TABLE F-6. WASTEWATER BASELINE COSTS (1999\$/year)										
Baseline Costs										
Facility ID	Weighting	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
1	3.6290	0	0	0	0	0	0	0	0	0
2	3.6290	0	0	0	0	0	0	0	0	0
3	1.0500	0	0	0	0	0	0	0	0	0
4	3.6290	0	149	0	0	0	0	149	542	931
5	4.0476	0	0	0	0	0	0	0	0	0
6	4.0476	0	2,213	0	0	0	0	2,213	8,959	15,385
7	1.0417	0	32,288	0	0	0	0	32,288	33,635	57,762
8	1.2143	1,888	1,258	270	0	0	4,764	8,180	9,932	17,056
9	1.0500	0	9,131	0	0	0	0	9,131	9,588	16,466
10	3.6290	0	0	0	0	0	3,827	3,827	13,887	23,848
11	1.0000	0	65,625	0	0	0	0	65,625	65,625	112,699
12	1.1951	0	0	0	0	0	0	0	0	0
13	1.1951	0	0	0	0	0	0	0	0	0
14	1.0417	0	0	0	0	0	0	0	0	0
15	3.6290	0	414	0	0	0	0	414	1,502	2,579
16	1.2143	0	0	0	0	0	0	0	0	0
17	4.0476	0	2,266	0	0	0	0	2,266	9,174	15,755
18	1.0417	0	5,323	0	0	0	0	5,323	5,545	9,523
19	1.0417	0	12,996	0	0	0	0	12,996	13,538	23,249
20	1.0417	0	2,070	0	0	0	187	2,257	2,351	4,037
21	3.6290	0	3,133	0	0	0	0	3,133	11,370	19,526
22	1.2143	0	427	0	0	0	0	427	519	891
23	1.2143	0	937	0	0	0	0	937	1,137	1,953

TABLE F-6. WASTEWATER BASELINE COSTS (1999\$/year)

Baseline Costs										
Facility ID	Weighting	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
24	1.1951	0	645	0	0	0	0	645	770	1,322
25	1.0000	0	0	0	0	0	0	0	0	0
26	3.6290	0	0	0	0	0	0	0	0	0
27	1.1951	0	3,663	0	0	0	0	3,663	4,378	7,518
28	1.2143	0	37,429	0	0	0	0	37,429	45,450	78,052
29	4.0476	0	0	0	0	0	0	0	0	0
30	1.1951	0	345	0	0	0	0	345	412	708
31	1.1951	0	0	0	0	0	0	0	0	0
32	1.0417	0	630	0	0	0	0	630	657	1,128
33	4.0476	0	0	0	0	0	0	0	0	0
34	1.1951	0	0	0	0	0	7,381	7,381	8,821	15,148
35	1.1951	0	3,347	0	0	0	0	3,347	4,000	6,869
36	4.0476	0	0	0	0	0	0	0	0	0
37	1.1951	0	10,984	0	0	0	0	10,984	13,126	22,541
38	1.2143	0	828	0	0	0	0	828	1,005	1,726
39	1.0500	0	6,526	0	0	0	0	6,526	6,852	11,767
40	1.0500	0	0	0	0	0	0	0	0	0
41	4.0476	0	28,886	0	0	0	0	28,886	116,920	200,788
42	1.0000	0	831	0	0	0	0	831	831	1,427
43	3.6290	0	0	0	0	0	0	0	0	0
44	4.0476	0	0	0	0	0	0	0	0	0
45	1.0000	0	0	0	0	0	0	0	0	0
46	1.1951	2,425	0	0	0	0	0	2,425	2,898	4,977

TABLE F-6. WASTEWATER BASELINE COSTS (1999\$/year)

Baseline Costs										
Facility ID	Weighting	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
47	1.1951	0	19,802	0	0	0	2,551	22,353	26,714	45,876
48	3.6290	0	48,363	0	0	0	0	48,363	175,511	301,408
49	1.1951	0	0	0	0	0	0	0	0	0
50	3.6290	0	0	0	0	0	0	0	0	0
51	1.1951	0	36,582	0	0	0	0	36,582	43,719	75,079
52	1.2143	0	0	0	0	0	0	0	0	0
53	1.1951	0	2,988	0	0	0	0	2,988	3,571	6,133
54	1.0000	0	0	0	0	0	0	0	0	0
55	1.0417	0	1,425,824	0	0	0	0	1,425,824	1,485,281	2,550,695
56	1.0417	0	636,088	0	0	0	0	636,088	662,613	1,137,915
57	1.0500	0	54,489	0	0	0	0	54,489	57,214	98,254
58	1.2143	0	20,998	0	0	0	0	20,998	25,498	43,788
59	4.0476	0	1,981	9,061	0	0	0	11,042	44,695	76,755
60	1.0000	6,948	151,185	0	0	0	0	158,133	158,133	271,564
61	1.1951	0	22,995	0	0	0	0	22,995	27,481	47,194
62	1.2143	0	37,036	17,426	0	0	0	54,462	66,133	113,571
63	1.1951	0	19,654	0	0	0	19,794	39,448	47,145	80,963
64	4.0476	0	1,274	968	0	0	215	2,457	9,945	17,079
65	1.0417	0	77,823	0	0	0	0	77,823	81,068	139,219
66	3.6290	0	3,418	0	0	0	0	3,418	12,405	21,303
67	1.0000	0	0	14,447	0	0	0	14,447	14,447	24,810
68	4.0476	0	0	0	0	0	0	0	0	0
69	1.0417	0	33,149	0	0	0	0	33,149	34,532	59,302

TABLE F-6. WASTEWATER BASELINE COSTS (1999\$/year)

Baseline Costs										
Facility ID	Weighting	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
70	1.1951	0	3,678	0	0	0	0	3,678	4,396	7,549
71	1.1951	0	17,592	0	0	0	0	17,592	21,024	36,105
72	1.0000	0	0	0	0	0	0	0	0	0
73	1.2143	0	0	0	0	0	0	0	0	0
74	4.0476	0	0	0	0	0	0	0	0	0
75	3.6290	0	0	6,679	0	0	56,771	63,450	230,258	395,425
76	1.2143	0	0	0	0	0	0	0	0	0
77	1.0417	0	0	0	0	0	0	0	0	0
78	4.0476	0	1,490	0	0	0	285	1,775	7,183	12,335
79	4.0476	0	0	0	0	0	0	0	0	0
80	1.0500	0	12,277	0	0	0	2,503	14,780	15,519	26,651
81	1.0417	0	80,203	0	0	0	0	80,203	83,548	143,478
82	1.1951	0	0	0	0	0	0	0	0	0
83	1.1951	0	78,449	0	0	0	0	78,449	93,754	161,005
84	1.2143	0	3,408	0	0	0	0	3,408	4,138	7,106
85	4.0476	0	0	0	0	0	0	0	0	0
86	1.1951	0	736	0	0	0	0	736	879	1,510
87	1.1951	0	36,796	0	0	0	0	36,796	43,975	75,519
88	1.2143	0	26,876	6,375	0	0	0	33,251	40,376	69,338
89	1.1951	0	5,588	0	0	0	0	5,588	6,679	11,470
90	1.1951	0	3,208	3,274	0	0	674	7,155	8,551	14,685
91	1.0500	0	18,214	0	0	0	0	18,214	19,125	32,844
92	1.0500	0	942	0	0	0	0	942	989	1,698

TABLE F-6. WASTEWATER BASELINE COSTS (1999\$/year)

Baseline Costs										
Facility ID	Weighting	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
93	1.1951	0	34,336	0	0	0	0	34,336	41,035	70,470
94	3.6290	0	3,061	0	0	0	539	3,600	13,065	22,437
95	4.0476	0	7,040	0	0	0	0	7,040	28,496	48,937
96	1.1951	0	0	0	0	0	0	0	0	0
97	4.0476	0	0	0	0	0	0	0	0	0
98	1.1951	0	2,693	0	0	0	0	2,693	3,219	5,528
99	1.0000	2,236	185,335	0	0	0	0	187,572	187,572	322,120
100	4.0476	0	123,656	0	0	0	0	123,656	500,510	859,533
101	1.2143	0	30,298	3,459	0	0	0	33,757	40,991	70,394
102	1.2143	0	0	0	0	0	0	0	0	0
103	1.0000	0	0	0	0	0	0	0	0	0
104	1.1951	0	0	0	0	0	0	0	0	0
105	1.0000	0	9,620	0	0	0	0	9,620	9,620	16,521
106	1.1951	0	276	69	0	0	0	345	412	708
107	4.0476	0	0	420	0	0	0	420	1,700	2,919
108	3.6290	0	44,431	0	0	0	0	44,431	161,240	276,900
109	1.0500	0	11,593	0	0	0	0	11,593	12,173	20,905
110	1.2143	0	365	302	0	0	0	667	810	1,391
111	1.0500	0	2,585	6,139	0	1,787	0	10,511	11,037	18,954
112	3.6290	0	112	0	0	0	0	112	405	696
113	4.0476	0	3,293	0	0	0	0	3,293	13,330	22,892
114	1.0500	0	5,096	0	0	0	0	5,096	5,350	9,188
115	3.6290	0	184,410	0	0	0	0	184,410	669,225	1,149,270

TABLE F-6. WASTEWATER BASELINE COSTS (1999\$/year)

Baseline Costs										
Facility ID	Weighting	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
116	1.0500	0	48,133	0	0	0	0	48,133	50,539	86,791
117	1.1951	0	0	0	0	0	0	0	0	0
118	1.1951	0	0	0	0	0	0	0	0	0
119	1.0417	0	9,263	0	0	0	0	9,263	9,650	16,572
120	1.1951	0	159,581	0	0	0	0	159,581	190,716	327,519
121	4.0476	0	258	0	0	0	0	258	1,044	1,793
122	3.6290	0	2,291	0	0	0	0	2,291	8,312	14,274
123	1.2143	0	6,018	0	0	0	0	6,018	7,308	12,550
124	1.1951	0	14,282	0	0	0	0	14,282	17,068	29,311
125	2.1667	0	20,466	0	0	0	0	20,466	44,343	76,151
126	8.8571	0	29,240	0	0	0	0	29,240	258,978	444,747
127	8.8571	0	0	0	0	0	0	0	0	0
128	1.8571	0	903	2,704	0	0	0	3,606	6,697	11,501
129	2.1667	0	0	0	0	0	0	0	0	0
130	7.6154	0	6,872	0	0	0	0	6,872	52,330	89,867
131	1.0000	67,266	94,657	0	0	0	0	161,923	161,923	278,073
132	1.0000	0	0	0	0	0	0	0	0	0
133	1.0000	0	44,059	0	0	0	0	44,059	44,059	75,663
134	8.8571	0	34,574	966	0	0	0	35,539	314,776	540,569
135	2.1667	0	0	0	0	0	0	0	0	0
136	2.1667	0	5,363	0	0	0	0	5,363	11,620	19,955
137	7.6154	0	0	0	0	0	0	0	0	0
138	1.8571	0	17,168	0	0	0	0	17,168	31,883	54,753

TABLE F-6. WASTEWATER BASELINE COSTS (1999\$/year)										
Baseline Costs										
Facility ID	Weighting	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
139	8.8571	0	0	0	0	0	0	0	0	0
140	1.8571	0	0	0	0	0	0	0	0	0
141	1.0000	0	278,690	0	0	0	0	278,690	278,690	478,598
142	1.0000	0	243,485	0	0	0	0	243,485	243,485	418,140
143	1.8571	0	0	0	0	0	0	0	0	0
144	1.8571	0	0	0	0	0	0	0	0	0
145	2.1667	0	0	0	0	0	0	0	0	0
146	7.6154	0	0	0	0	0	0	0	0	0
147	8.8571	0	0	0	0	0	0	0	0	0
148	2.2500	0	36,931	0	0	0	0	36,931	83,096	142,702
149	2.2500	0	19,942	0	0	0	0	19,942	44,870	77,056
150	8.8571	0	0	0	0	0	0	0	0	0
151	8.8571	0	0	0	0	0	0	0	0	0
Total		80,764	4,835,829	72,558	0	1,787	99,490	5,090,428	7,511,500	12,899,605

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- ¹ Model facility weighting factor is expressed up to four decimal places
 - ² Numbers may not add due to rounding
 - ³ Unweighted total times weighting factor to arrive at the sampling universe
 - ⁴ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total
 - ⁵ The wastewater generated/facility included in the above table are as follows: Hazardous Caustic Cleaning Residual (HCL), Hazardous Solvent Cleaning Residual (HSL), Hazardous Water Cleaning Residual (HWL), Nonhazardous Caustic Cleaning Residual (NCL), Nonhazardous Solvent Cleaning Residual (NSL), Nonhazardous Water Cleaning Residual (NWL).

TABLE F-7. WASTEWATER COMPLIANCE COSTS (1999\$/YEAR)										
Compliance Costs										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
1	3.6290	0	0	0	0	0	2	2	8	14
2	3.6290	0	0	0	0	0	0	0	0	0
3	1.0500	0	0	0	0	0	308	308	323	555
4	3.6290	0	149	0	0	0	0	149	542	931
5	4.0476	0	0	0	0	0	3	3	11	19
6	4.0476	0	2,213	0	0	0	0	2,213	8,959	15,385
7	1.0417	0	32,288	122	0	0	0	32,410	33,762	57,980
8	1.2143	1,920	1,258	274	0	0	4,844	8,296	10,074	17,300
9	1.0500	0	9,720	0	0	0	0	9,720	10,206	17,527
10	3.6290	0	0	0	0	0	3,891	3,891	14,121	24,250
11	1.0000	0	65,625	0	0	0	41	65,666	65,666	112,769
12	1.1951	0	0	0	0	0	0	0	0	0
13	1.1951	0	0	0	0	0	115	115	137	235
14	1.0417	0	0	0	0	0	146	146	152	261
15	3.6290	0	414	0	0	0	0	414	1,502	2,579
16	1.2143	0	0	0	0	0	0	0	0	0
17	4.0476	0	2,266	0	0	0	0	2,266	9,174	15,755
18	1.0417	0	5,323	0	0	0	793	6,116	6,371	10,941
19	1.0417	0	12,996	0	0	0	0	12,996	13,538	23,249
20	1.0417	0	2,070	0	0	0	416	2,486	2,589	4,446
21	3.6290	0	3,133	0	0	0	0	3,133	11,370	19,526
22	1.2143	0	435	0	0	0	0	435	528	907
23	1.2143	0	952	0	0	0	0	952	1,156	1,985
24	1.1951	0	655	0	0	0	0	655	783	1,345

TABLE F-7. WASTEWATER COMPLIANCE COSTS (1999\$/YEAR)										
Compliance Costs										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
25	1.0000	0	0	0	0	0	73	73	73	125
26	3.6290	0	0	0	0	0	17	17	61	105
27	1.1951	0	3,663	0	0	0	224	3,887	4,646	7,979
28	1.2143	0	37,429	0	0	0	0	37,429	45,450	78,052
29	4.0476	0	0	0	0	0	0	0	0	0
30	1.1951	0	345	0	0	0	0	345	412	708
31	1.1951	0	0	0	0	0	0	0	0	0
32	1.0417	0	641	0	0	0	0	641	668	1,147
33	4.0476	0	0	0	0	0	0	0	0	0
34	1.1951	0	0	0	0	0	7,505	7,505	8,969	15,403
35	1.1951	0	3,347	0	0	0	1	3,348	4,001	6,871
36	4.0476	0	0	0	0	0	0	0	0	0
37	1.1951	0	10,984	0	0	0	0	10,984	13,126	22,541
38	1.2143	0	828	0	0	0	6	834	1,012	1,738
39	1.0500	0	6,526	0	0	0	201	6,728	7,064	12,131
40	1.0500	0	0	0	0	0	63	63	67	115
41	4.0476	0	28,886	0	0	0	42	28,928	117,089	201,079
42	1.0000	0	831	0	0	0	0	831	831	1,427
43	3.6290	0	0	0	0	0	0	0	0	0
44	4.0476	0	0	0	0	0	0	0	0	0

TABLE F-7. WASTEWATER COMPLIANCE COSTS (1999\$/YEAR)										
Compliance Costs										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
45	1.0000	0	0	0	0	0	283	283	283	486
46	1.1951	2,466	0	0	0	0	0	2,466	2,947	5,061
47	1.1951	0	19,802	0	0	0	7,135	26,937	32,192	55,284
48	3.6290	0	48,363	0	0	0	0	48,363	175,511	301,408
49	1.1951	0	0	0	0	0	252	252	301	517
50	3.6290	0	0	0	0	0	0	0	0	0
51	1.1951	0	38,942	0	0	0	93	39,035	46,651	80,114
52	1.2143	0	0	0	0	0	42	42	51	88
53	1.1951	0	2,988	0	0	0	851	3,839	4,588	7,879
54	1.0000	0	0	0	0	0	189	189	189	325
55	1.0417	0	1,425,824	0	0	0	11	1,425,835	1,485,292	2,550,713
56	1.0417	0	636,088	0	0	0	0	636,088	662,613	1,137,915
57	1.0500	0	54,489	0	0	0	0	54,489	57,214	98,254
58	1.2143	0	20,998	0	0	0	0	20,998	25,498	43,788
59	4.0476	0	1,981	9,061	0	0	590	11,632	47,083	80,856
60	1.0000	7,396	151,185	0	0	0	0	158,581	158,581	272,333
61	1.1951	0	22,995	0	0	0	0	22,995	27,481	47,194
62	1.2143	0	37,036	17,426	0	0	0	54,462	66,133	113,571
63	1.1951	0	19,654	0	0	0	19,794	39,448	47,145	80,963
64	4.0476	0	1,274	968	0	0	215	2,457	9,945	17,079
65	1.0417	0	77,823	0	0	0	0	77,823	81,068	139,219
66	3.6290	0	3,418	0	0	0	0	3,418	12,405	21,303

TABLE F-7. WASTEWATER COMPLIANCE COSTS (1999\$/YEAR)										
Compliance Costs										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
67	1.0000	0	0	15,379	0	0	0	15,379	15,379	26,411
68	4.0476	0	0	0	0	0	22	22	87	149
69	1.0417	0	33,149	0	0	0	0	33,149	34,532	59,302
70	1.1951	0	3,678	0	0	0	0	3,678	4,396	7,549
71	1.1951	0	17,592	0	0	0	0	17,592	21,024	36,105
72	1.0000	0	0	0	0	0	424	424	424	728
73	1.2143	0	0	0	0	0	1,175	1,175	1,427	2,451
74	4.0476	0	0	0	0	0	0	0	0	0
75	3.6290	0	0	6,679	0	0	56,771	63,450	230,258	395,425
76	1.2143	0	0	0	0	0	21	21	26	45
77	1.0417	0	0	0	0	0	0	0	0	0
78	4.0476	0	1,490	0	0	0	289	1,780	7,203	12,370
79	4.0476	0	0	0	0	0	0	0	0	0
80	1.0500	0	12,822	0	0	0	3,890	16,712	17,548	30,135
81	1.0417	0	80,203	0	0	0	1,027	81,230	84,618	145,316
82	1.1951	0	0	0	0	0	120	120	143	246
83	1.1951	0	78,449	0	0	0	146	78,594	93,928	161,304
84	1.2143	0	3,465	0	0	0	0	3,465	4,208	7,226
85	4.0476	0	0	0	0	0	0	0	0	0
86	1.1951	0	736	0	0	0	13	748	894	1,535
87	1.1951	0	36,796	0	0	0	0	36,796	43,975	75,519
88	1.2143	0	26,876	6,375	0	0	0	33,251	40,376	69,338

TABLE F-7. WASTEWATER COMPLIANCE COSTS (1999\$/YEAR)										
Compliance Costs										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
89	1.1951	0	5,588	0	0	0	0	5,588	6,679	11,470
90	1.1951	0	3,208	3,329	0	0	685	7,222	8,631	14,822
91	1.0500	0	18,214	0	0	0	77	18,291	19,205	32,981
92	1.0500	0	942	0	0	0	0	942	989	1,698
93	1.1951	0	34,336	0	0	0	21	34,357	41,060	70,513
94	3.6290	0	3,113	0	0	0	548	3,661	13,285	22,815
95	4.0476	0	7,040	0	0	0	0	7,040	28,496	48,937
96	1.1951	0	0	0	0	0	0	0	0	0
97	4.0476	0	0	0	0	0	0	0	0	0
98	1.1951	0	2,739	0	0	0	0	2,739	3,273	5,621
99	1.0000	2,274	185,335	0	0	0	3,940	191,550	191,550	328,952
100	4.0476	0	123,656	0	0	0	2,335	125,991	509,961	875,763
101	1.2143	0	30,298	3,459	0	0	0	33,757	40,991	70,394
102	1.2143	0	0	0	0	0	4	4	5	9
103	1.0000	0	0	0	0	0	104	104	104	179
104	1.1951	0	0	0	0	0	460	460	550	945
105	1.0000	0	9,620	0	0	0	417	10,037	10,037	17,237
106	1.1951	0	276	69	0	0	0	345	412	708
107	4.0476	0	0	420	0	0	0	420	1,700	2,919
108	3.6290	0	44,431	0	0	0	0	44,431	161,240	276,900
109	1.0500	0	11,593	0	0	0	0	11,593	12,173	20,905
110	1.2143	0	365	302	0	0	0	667	810	1,391

TABLE F-7. WASTEWATER COMPLIANCE COSTS (1999\$/YEAR)										
Compliance Costs										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
111	1.0500	0	2,585	6,242	0	1,787	0	10,615	11,145	19,139
112	3.6290	0	112	0	0	0	0	112	405	696
113	4.0476	0	3,293	0	0	0	0	3,293	13,330	22,892
114	1.0500	0	5,096	0	0	0	1,782	6,877	7,221	12,401
115	3.6290	0	184,410	0	0	0	0	184,410	669,225	1,149,270
116	1.0500	0	48,133	0	0	0	0	48,133	50,539	86,791
117	1.1951	0	0	0	0	0	9	9	11	19
118	1.1951	0	0	0	0	0	1,003	1,003	1,199	2,059
119	1.0417	0	9,263	0	0	0	836	10,099	10,520	18,066
120	1.1951	0	159,581	0	0	0	4	159,585	190,720	327,526
121	4.0476	0	258	0	0	0	0	258	1,044	1,793
122	3.6290	0	2,291	0	0	0	0	2,291	8,312	14,274
123	1.2143	0	6,018	0	0	0	0	6,018	7,308	12,550
124	1.1951	0	14,288	0	0	0	0	14,288	17,075	29,323
125	2.1667	0	20,466	0	0	0	0	20,466	44,343	76,151
126	8.8571	0	29,240	0	0	0	0	29,240	258,978	444,747
127	8.8571	0	0	0	0	0	0	0	0	0
128	1.8571	0	903	2,704	0	0	21	3,628	6,737	11,570
129	2.1667	0	0	0	0	0	1	1	2	3
130	7.6154	0	6,872	0	0	0	0	6,872	52,330	89,867
131	1.0000	71,606	94,657	0	0	0	0	166,263	166,263	285,526
132	1.0000	0	0	0	0	0	0	0	0	0

TABLE F-7. WASTEWATER COMPLIANCE COSTS (1999\$/YEAR)										
Compliance Costs										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
133	1.0000	0	44,059	0	0	0	5	44,064	44,064	75,672
134	8.8571	0	34,574	966	0	0	102	35,641	315,675	542,113
135	2.1667	0	0	0	0	0	8,399	8,399	18,199	31,253
136	2.1667	0	5,363	0	0	0	0	5,363	11,620	19,955
137	7.6154	0	0	0	0	0	1,726	1,726	13,142	22,569
138	1.8571	0	17,168	0	0	0	0	17,168	31,883	54,753
139	8.8571	0	0	0	0	0	0	0	0	0
140	1.8571	0	0	0	0	0	0	0	0	0
141	1.0000	0	278,690	0	0	0	0	278,690	278,690	478,598
142	1.0000	0	243,485	0	0	0	4,652	248,137	248,137	426,129
143	1.8571	0	0	0	0	0	1	1	3	5
144	1.8571	0	0	0	0	0	156	156	289	496

TABLE F-7. WASTEWATER COMPLIANCE COSTS (1999\$/YEAR)										
Compliance Costs										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
145	2.1667	0	0	0	0	0	0	0	0	0
146	7.6154	0	0	0	0	0	75	75	573	984
147	8.8571	0	0	0	0	0	0	0	0	0
148	2.2500	0	36,931	0	0	0	171	37,102	83,480	143,361
149	2.2500	0	19,942	0	0	0	98	20,040	45,090	77,434
150	8.8571	0	0	0	0	0	9	9	78	134
151	8.8571	0	0	0	0	0	55	55	483	829
		83,202	4,837,654	73,211	0	1,787	139,337	5,140,491	7,597,322	13,046,991

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¹ Model facility weighting factor is expressed up to four decimal places

² Numbers may not add due to rounding

³ Weighted total is unweighted total times 0.5 plus unweighted total for baseline times 0.5 (to account for the wastes that are not hazardous and managed the same as under baseline)

⁴ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total

⁵ The wastewater generated/facility included in the above table are as follows: Hazardous Caustic Cleaning Residual (HCL), Hazardous Solvent Cleaning Residual (HSL), Hazardous Water Cleaning Residual (HWL), Nonhazardous Caustic Cleaning Residual (NCL), Nonhazardous Solvent Cleaning Residual (NSL), Nonhazardous Water Cleaning Residual (NWL).

Table F-8. Wastewater Incremental Costs (1999\$/year)										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
1	3.6290	0	0	0	0	0	2	2	7	10
2	3.6290	0	0	0	0	0	0	0	0	0
3	1.0500	0	0	0	0	0	308	308	258	440
4	3.6290	0	0	0	0	0	0	0	0	0
5	4.0476	0	0	0	0	0	3	3	9	20
6	4.0476	0	0	0	0	0	0	0	0	0
7	1.0417	0	0	122	0	0	0	122	102	170
8	1.2143	32	0	5	0	0	80	117	113	190
9	1.0500	0	589	0	0	0	0	589	495	850
10	3.6290	0	0	0	0	0	64	64	187	320
11	1.0000	0	0	0	0	0	41	41	33	60
12	1.1951	0	0	0	0	0	0	0	0	0
13	1.1951	0	0	0	0	0	115	115	110	190
14	1.0417	0	0	0	0	0	146	146	121	210
15	3.6290	0	0	0	0	0	0	0	0	0
16	1.2143	0	0	0	0	0	0	0	0	0
17	4.0476	0	0	0	0	0	0	0	0	0
18	1.0417	0	0	0	0	0	793	793	661	1,130
19	1.0417	0	(0)	0	0	0	0	(0)	(0)	(0)
20	1.0417	0	0	0	0	0	229	229	191	330
21	3.6290	0	0	0	0	0	0	0	0	0
22	1.2143	0	7	0	0	0	0	7	7	10
23	1.2143	0	16	0	0	0	0	16	15	30
24	1.1951	0	11	0	0	0	0	11	10	20
25	1.0000	0	0	0	0	0	73	73	58	100

Table F-8. Wastewater Incremental Costs (1999\$/year)										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
26	3.6290	0	0	0	0	0	17	17	49	80
27	1.1951	0	0	0	0	0	224	224	214	370
28	1.2143	0	0	0	0	0	0	0	0	0
29	4.0476	0	0	0	0	0	0	0	0	0
30	1.1951	0	0	0	0	0	0	0	0	0
31	1.1951	0	0	0	0	0	0	0	0	0
32	1.0417	0	11	0	0	0	0	11	9	20
33	4.0476	0	0	0	0	0	0	0	0	0
34	1.1951	0	0	0	0	0	124	124	119	200
35	1.1951	0	0	0	0	0	1	1	1	0
36	4.0476	0	0	0	0	0	0	0	0	0
37	1.1951	0	0	0	0	0	0	0	0	0
38	1.2143	0	0	0	0	0	6	6	6	10
39	1.0500	0	0	0	0	0	201	201	169	290

Table F-8. Wastewater Incremental Costs (1999\$/year)										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
40	1.0500	0	0	0	0	0	63	63	53	90
41	4.0476	0	0	0	0	0	42	42	136	230
42	1.0000	0	0	0	0	0	0	0	0	0
43	3.6290	0	0	0	0	0	0	0	0	0
44	4.0476	0	0	0	0	0	0	0	0	0
45	1.0000	0	0	0	0	0	283	283	227	390
46	1.1951	41	0	0	0	0	0	41	39	70
47	1.1951	0	0	0	0	0	4,584	4,584	4,382	7,530
48	3.6290	0	0	0	0	0	0	0	0	0
49	1.1951	0	0	0	0	0	252	252	241	410
50	3.6290	0	0	0	0	0	0	0	0	0
51	1.1951	0	2,360	0	0	0	93	2,453	2,345	4,030
52	1.2143	0	0	0	0	0	42	42	41	70
53	1.1951	0	0	0	0	0	851	851	813	1,400
54	1.0000	0	0	0	0	0	189	189	151	260
55	1.0417	0	0	0	0	0	11	11	9	20
56	1.0417	0	(0)	0	0	0	0	(0)	(0)	(0)
57	1.0500	0	0	0	0	0	0	0	0	0
58	1.2143	0	0	0	0	0	0	0	0	0
59	4.0476	0	0	0	0	0	590	590	1,910	3,280
60	1.0000	448	0	0	0	0	0	448	359	620
61	1.1951	0	0	0	0	0	0	0	0	0
62	1.2143	0	0	0	0	0	0	0	0	0
63	1.1951	0	0	0	0	0	0	0	0	0

Table F-8. Wastewater Incremental Costs (1999\$/year)										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
64	4.0476	0	0	0	0	0	0	0	0	0
65	1.0417	0	0	0	0	0	0	0	0	0
66	3.6290	0	0	0	0	0	0	0	0	0
67	1.0000	0	0	932	0	0	0	932	746	1,280
68	4.0476	0	0	0	0	0	22	22	70	120
69	1.0417	0	0	0	0	0	0	0	0	0
70	1.1951	0	0	0	0	0	0	0	0	0
71	1.1951	0	0	0	0	0	0	0	0	0
72	1.0000	0	0	0	0	0	424	424	339	580
73	1.2143	0	0	0	0	0	1,175	1,175	1,142	1,960
74	4.0476	0	0	0	0	0	0	0	0	0
75	3.6290	0	0	0	0	0	(0)	(0)	0	0
76	1.2143	0	0	0	0	0	21	21	21	40
77	1.0417	0	0	0	0	0	0	0	0	0
78	4.0476	0	0	0	0	0	5	5	16	30
79	4.0476	0	0	0	0	0	0	0	0	0
80	1.0500	0	545	0	0	0	1,387	1,932	1,623	2,790
81	1.0417	0	0	0	0	0	1,027	1,027	856	1,470
82	1.1951	0	0	0	0	0	120	120	114	200
83	1.1951	0	0	0	0	0	146	146	139	240
84	1.2143	0	57	0	0	0	0	57	56	100
85	4.0476	0	0	0	0	0	0	0	0	0
86	1.1951	0	0	0	0	0	13	13	12	20
87	1.1951	0	0	0	0	0	0	0	0	0

Table F-8. Wastewater Incremental Costs (1999\$/year)										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
88	1.2143	0	0	0	0	0	0	0	0	0
89	1.1951	0	0	0	0	0	0	0	0	0
90	1.1951	0	0	55	0	0	11	66	64	110
91	1.0500	0	0	0	0	0	77	77	65	110
92	1.0500	0	0	0	0	0	0	0	0	0
93	1.1951	0	0	0	0	0	21	21	20	30
94	3.6290	0	52	0	0	0	9	61	176	300
95	4.0476	0	0	0	0	0	0	0	0	0
96	1.1951	0	0	0	0	0	0	0	0	0
97	4.0476	0	0	0	0	0	0	0	0	0
98	1.1951	0	45	0	0	0	0	45	43	70
99	1.0000	38	0	0	0	0	3,940	3,978	3,182	5,470
100	4.0476	0	0	0	0	0	2,335	2,335	7,560	12,980
101	1.2143	0	0	0	0	0	0	0	0	0
102	1.2143	0	0	0	0	0	4	4	4	10
103	1.0000	0	0	0	0	0	104	104	83	140
104	1.1951	0	0	0	0	0	460	460	440	760
105	1.0000	0	0	0	0	0	417	417	334	570
106	1.1951	0	0	0	0	0	0	0	0	0
107	4.0476	0	0	0	0	0	0	0	0	0
108	3.6290	0	0	0	0	0	0	0	0	0
109	1.0500	0	0	0	0	0	0	0	0	0
110	1.2143	0	0	0	0	0	0	0	0	0

Table F-8. Wastewater Incremental Costs (1999\$/year)										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
111	1.0500	0	0	103	0	0	0	103	87	150
112	3.6290	0	0	0	0	0	0	0	0	0
113	4.0476	0	0	0	0	0	0	0	0	0
114	1.0500	0	0	0	0	0	1,782	1,782	1,497	2,570
115	3.6290	0	0	0	0	0	0	0	0	0
116	1.0500	0	0	0	0	0	0	0	0	0
117	1.1951	0	0	0	0	0	9	9	9	10
118	1.1951	0	0	0	0	0	1,003	1,003	959	1,650
119	1.0417	0	0	0	0	0	836	836	697	1,200
120	1.1951	0	0	0	0	0	4	4	4	10
121	4.0476	0	0	0	0	0	0	0	0	0
122	3.6290	0	0	0	0	0	0	0	0	0
123	1.2143	0	0	0	0	0	0	0	0	0
124	1.1951	0	6	0	0	0	0	6	6	10
125	2.1667	0	0	0	0	0	0	0	0	0
126	8.8571	0	0	0	0	0	0	0	0	0
127	8.8571	0	0	0	0	0	0	0	0	0
128	1.8571	0	0	0	0	0	21	21	32	50
129	2.1667	0	0	0	0	0	1	1	2	0
130	7.6154	0	0	0	0	0	0	0	0	0
131	1.0000	4,340	0	0	0	0	0	4,340	3,472	5,960
132	1.0000	0	0	0	0	0	0	0	0	0
133	1.0000	0	0	0	0	0	5	5	4	10
134	8.8571	0	0	0	0	0	102	102	719	1,240

Table F-8. Wastewater Incremental Costs (1999\$/year)										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
135	2.1667	0	0	0	0	0	8,399	8,399	14,559	25,000
136	2.1667	0	0	0	0	0	0	0	0	0
137	7.6154	0	0	0	0	0	1,726	1,726	10,514	18,060
138	1.8571	0	0	0	0	0	0	0	0	0
139	8.8571	0	0	0	0	0	0	0	0	0
140	1.8571	0	0	0	0	0	0	0	0	0
141	1.0000	0	0	0	0	0	0	0	0	0
142	1.0000	0	0	0	0	0	4,652	4,652	3,722	6,390
143	1.8571	0	0	0	0	0	1	1	2	0
144	1.8571	0	0	0	0	0	156	156	231	400
145	2.1667	0	0	0	0	0	0	0	0	0
146	7.6154	0	0	0	0	0	75	75	458	790
147	8.8571	0	0	0	0	0	0	0	0	0
148	2.2500	0	0	0	0	0	171	171	307	530

Table F-8. Wastewater Incremental Costs (1999\$/year)										
FacilityID	Weighting ¹	HCL	HSL	HWL	NCL	NSL	NWL	Unweighted Total ²	Weighted Total ³	Universe Total ⁴
149	2.2500	0	0	0	0	0	98	98	176	300
150	8.8571	0	0	0	0	0	9	9	63	110
151	8.8571	0	0	0	0	0	55	55	387	660
		4,898	3,699	1,217	0	0	40,249	50,065	68,659	117,930

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¹ Model facility weighting factor is expressed up to four decimal places

² Numbers may not add due to rounding

³ Compliance total-baseline total

⁴ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total

⁵ The wastewater generated/facility included in the above table are as follows: Hazardous Caustic Cleaning Residual (HCL), Hazardous Solvent Cleaning Residual (HSL), Hazardous Water Cleaning Residual (HWL), Nonhazardous Caustic Cleaning Residual (NCL), Nonhazardous Solvent Cleaning Residual (NSL), Nonhazardous Water Cleaning Residual (NWL).

TABLE F-9. ESTIMATED TRANSPORTATION COSTS (1999\$/YEAR)						
Facility ID	Weighting	TRANSPORTATION COSTS			Weighted Total	Universe Total ¹
		Costs Baseline	Compliance	Incremental		
1	3.6290	600	600	0	0	0
2	3.6290	0	0	0	0	0
3	1.0500	600	1,200	600	630	1,080
4	3.6290	600	600	0	0	0
5	4.0476	0	0	0	0	0
6	4.0476	600	600	0	0	0
7	1.0417	3,723	3,723	0	0	0
8	1.2143	600	1,200	600	730	1,250
9	1.0500	3,801	3,801	0	0	0
10	3.6290	600	600	0	0	0
11	1.0000	17,144	21,245	4101	4,100	7,030
12	1.1951	600	600	0	0	0
13	1.1951	0	0	0	0	0
14	1.0417	0	0	0	0	0
15	3.6290	600	600	0	0	0
16	1.2143	600	600	0	0	0
17	4.0476	600	600	0	0	0
18	1.0417	600	1,200	600	630	1,080
19	1.0417	1,200	4,336	3136	3,270	5,610
20	1.0417	1,200	1,200	0	0	0
21	3.6290	600	600	0	0	0
22	1.2143	600	600	0	0	0
23	1.2143	600	1,200	600	730	1,250

TABLE F-9. ESTIMATED TRANSPORTATION COSTS (1999\$/YEAR)						
Facility ID	Weighting	TRANSPORTATION COSTS			Weighted Total	Universe Total ¹
		Costs Baseline	Compliance	Incremental		
24	1.1951	600	600	0	0	0
25	1.0000	0	1,200	1200	1,200	2,060
26	3.6290	0	600	600	2,180	3,740
27	1.1951	600	1,200	600	720	1,240
28	1.2143	3,541	3,550	10	10	20
29	4.0476	0	0	0	0	0
30	1.1951	600	1,200	600	720	1,240
31	1.1951	0	1,200	1200	1,430	2,450
32	1.0417	600	600	0	0	0
33	4.0476	0	0	0	0	0
34	1.1951	600	1,200	600	720	1,240
35	1.1951	1,200	1,200	0	0	0
36	4.0476	600	600	0	0	0
37	1.1951	1,200	1,200	0	0	0
38	1.2143	600	600	0	0	0
39	1.0500	1,200	1,606	406	430	740
40	1.0500	600	1,200	600	630	1,080
41	4.0476	2,051	2,051	0	0	0

TABLE F-9. ESTIMATED TRANSPORTATION COSTS (1999\$/YEAR)						
Facility ID	Weighting	TRANSPORTATION COSTS			Weighted Total	Universe Total ¹
		Costs Baseline	Compliance	Incremental		
42	1.0000	600	600	0	0	0
43	3.6290	0	600	600	2,180	3,740
44	4.0476	1,939	1,939	0	0	0
45	1.0000	600	1,377	777	780	1,340
46	1.1951	600	600	0	0	0
47	1.1951	5,297	6,278	982	1,170	2,010
48	3.6290	3,693	3,693	0	0	0
49	1.1951	0	1,200	1200	1,430	2,450
50	3.6290	0	0	0	0	0
51	1.1951	11,564	11,747	183	220	380
52	1.2143	0	0	0	0	0
53	1.1951	600	41,211	40611	48,530	83,260
54	1.0000	600	1,200	600	600	1,030
55	1.0417	157,141	157,141	0	0	0
56	1.0417	46,398	46,398	0	0	0
57	1.0500	3,869	3,889	20	20	30
58	1.2143	1,491	1,491	0	0	0
59	4.0476	1,200	1,200	0	0	0
60	1.0000	13,233	13,233	0	0	0
61	1.1951	1,633	1,633	0	0	0
62	1.2143	5,425	5,425	0	0	0
63	1.1951	2,801	2,801	0	0	0

TABLE F-9. ESTIMATED TRANSPORTATION COSTS (1999\$/YEAR)						
Facility ID	Weighting	TRANSPORTATION COSTS			Weighted Total	Universe Total ¹
		Costs Baseline	Compliance	Incremental		
64	4.0476	600	600	0	0	0
65	1.0417	20,745	20,745	0	0	0
66	3.6290	600	600	0	0	0
67	1.0000	11,193	11,250	57	60	100
68	4.0476	0	0	0	0	0
69	1.0417	2,920	2,920	0	0	0
70	1.1951	1,200	1,200	0	0	0
71	1.1951	1,249	1,282	33	40	70
72	1.0000	1,200	1,200	0	0	0
73	1.2143	0	0	0	0	0
74	4.0476	0	600	600	2,430	4,170
75	3.6290	9,669	9,669	0	0	0
76	1.2143	0	1,200	1200	1,460	2,500
77	1.0417	600	600	0	0	0
78	4.0476	600	600	0	0	0
79	4.0476	0	0	0	0	0
80	1.0500	2,977	3,066	90	90	150
81	1.0417	5,695	8,686	2991	3,120	5,350
82	1.1951	0	0	0	0	0
83	1.1951	5,978	5,978	0	0	0
84	1.2143	600	600	0	0	0
85	4.0476	600	600	0	0	0

TABLE F-9. ESTIMATED TRANSPORTATION COSTS (1999\$/YEAR)						
Facility ID	Weighting	TRANSPORTATION COSTS			Weighted Total	Universe Total ¹
		Costs Baseline	Compliance	Incremental		
86	1.1951	600	600	0	0	0
87	1.1951	5,168	5,168	0	0	0
88	1.2143	2,377	2,377	0	0	0
89	1.1951	1,200	1,200	0	0	0
90	1.1951	1,200	1,200	0	0	0
91	1.0500	1,294	1,294	0	0	0
92	1.0500	600	600	0	0	0
93	1.1951	2,438	2,438	0	0	0
94	3.6290	1,200	1,200	0	0	0
95	4.0476	1,200	1,200	0	0	0
96	1.1951	1,200	1,765	565	680	1,170
97	4.0476	600	600	0	0	0
98	1.1951	600	3,220	2620	3,130	5,370
99	1.0000	19,747	19,847	100	100	170
100	4.0476	11,321	25,622	14301	57,880	99,300
101	1.2143	2,416	2,416	0	0	0
102	1.2143	0	600	600	730	1,250
103	1.0000	16,337	16,339	3	0	0
104	1.1951	0	0	0	0	0
105	1.0000	10,149	10,240	91	90	150
106	1.1951	1,200	1,200	0	0	0
107	4.0476	600	600	0	0	0

TABLE F-9. ESTIMATED TRANSPORTATION COSTS (1999\$/YEAR)						
Facility ID	Weighting	TRANSPORTATION COSTS			Weighted Total	Universe Total ¹
		Costs Baseline	Compliance	Incremental		
108	3.6290	3,155	3,155	0	0	0
109	1.0500	1,359	1,359	0	0	0
110	1.2143	600	600	0	0	0
111	1.0500	4,029	4,029	0	0	0
112	3.6290	0	0	0	0	0
113	4.0476	600	600	0	0	0
114	1.0500	1,561	1,561	0	0	0
115	3.6290	13,094	13,094	0	0	0
116	1.0500	5,899	5,906	7	10	20
117	1.1951	0	0	0	0	0
118	1.1951	0	1,200	1200	1,430	2,450
119	1.0417	2,617	3,637	1019	1,060	1,820
120	1.1951	11,331	11,397	65	80	140
121	4.0476	600	600	0	0	0
122	3.6290	600	600	0	0	0
123	1.2143	600	1,200	600	730	1,250
124	1.1951	1,238	1,252	14	20	30
125	2.1667	2,076	2,076	0	0	0
126	8.8571	4,212	4,212	0	0	0
127	8.8571	0	600	600	5,310	9,110
128	1.8571	1,244	1,554	310	580	1,000
129	2.1667	0	0	0	0	0

TABLE F-9. ESTIMATED TRANSPORTATION COSTS (1999\$/YEAR)						
Facility ID	Weighting	TRANSPORTATION COSTS			Weighted Total	Universe Total ¹
		Costs Baseline	Compliance	Incremental		
130	7.6154	1,200	1,200	0	0	0
131	1.0000	58,013	58,202	189	190	330
132	1.0000	600	1,200	600	600	1,030
133	1.0000	6,627	6,630	3	0	0
134	8.8571	2,690	2,710	20	180	310
135	2.1667	0	1,633	1633	3,540	6,070
136	2.1667	1,366	1,366	0	0	0
137	7.6154	0	3,282	3282	24,990	42,870
138	1.8571	1,524	1,543	20	40	70
139	8.8571	0	0	0	0	0
140	1.8571	600	600	0	0	0
141	1.0000	25,633	25,723	90	90	150
142	1.0000	24,923	111,981	87058	87,060	149,360
143	1.8571	0	600	600	1,110	1,900
144	1.8571	3,549	3,549	0	0	0
145	2.1667	600	1,200	600	1,300	2,230
146	7.6154	0	1,200	1200	9,140	15,680
147	8.8571	0	600	600	5,310	9,110
148	2.2500	3,222	5,966	2744	6,170	10,580
149	2.2500	4,119	4,173	54	120	210

TABLE F-9. ESTIMATED TRANSPORTATION COSTS (1999\$/YEAR)						
Facility ID	Weighting	TRANSPORTATION COSTS			Weighted Total	Universe Total ¹
		Costs Baseline	Compliance	Incremental		
150	8.8571	0	0	0	0	0
151	8.8571	600	1,200	600	5,310	9,110
Totals		646,100	832,881	186,785	297,240	509,930

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¹ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total.

Waste management costs include only treatment and disposal costs.

TABLE F-10. MODEL FACILITY COSTS AND IMPACTS (1999\$/year)

Facility ID	Weighting	Employment	Estimated Sales \$(1,000)	Waste Mgmt. Costs	Transportation Costs	Analytical Costs	Administrative Costs	Total Costs	Total Costs as a Percent of Sales	Universe Total Cost ¹
1	3.6290	8	2,960	15	0	0	2,600	2,615	0.09%	16,256
2	3.6290	12	4,440	0	0	0	2,600	2,600	0.06%	16,204
3	1.0500	80	29,600	597	600	3,365	2,600	7,162	0.02%	12,542
4	3.6290	7	2,590	0	0	0	2,600	2,600	0.10%	16,204
5	4.0476	16	5,920	3	0	0	2,600	2,603	0.04%	18,088
6	4.0476	12	4,440	0	0	0	2,600	2,600	0.06%	18,073
7	1.0417	100	37,000	122	0	3,365	2,600	6,087	0.02%	10,846
8	1.2143	44	16,280	117	600	0	2,600	3,317	0.02%	6,867
9	1.0500	100	37,000	1,687	0	2,808	2,600	7,095	0.02%	11,591
10	3.6290	20	7,400	64	0	0	2,600	2,664	0.04%	16,525
11	1.0000	200	74,000	256,799	4,101	6,173	2,600	269,673	0.36%	242,631
12	1.1951	22	8,140	0	0	0	2,600	2,600	0.03%	5,336
13	1.1951	45	16,650	115	0	0	2,600	2,715	0.02%	5,525
14	1.0417	200	74,000	1,178	0	0	2,600	3,778	0.01%	5,782
15	3.6290	10	3,700	0	0	0	2,600	2,600	0.07%	16,204
16	1.2143	25	9,250	0	0	0	2,600	2,600	0.03%	5,422
17	4.0476	NA	NA	0	0	0	2,600	2,600	NA	18,073
18	1.0417	60	22,200	1,197	600	3,365	2,600	7,762	0.03%	13,241
19	1.0417	60	22,200	60,694	3,136	2,808	2,600	69,238	0.31%	69,573
20	1.0417	125	46,250	6,552	0	0	2,600	9,152	0.02%	10,634
21	3.6290	24	8,880	0	0	0	2,600	2,600	0.03%	16,204
22	1.2143	40	14,800	7	0	0	2,600	2,607	0.02%	5,434
23	1.2143	14	5,180	16	600	0	2,600	3,216	0.06%	6,699
24	1.1951	24	8,880	11	0	0	2,600	2,611	0.03%	5,354
25	1.0000	70	25,900	1,407	1,200	0	2,600	5,207	0.02%	7,771
26	3.6290	4	1,480	882	600	0	2,600	4,082	0.28%	22,723
27	1.1951	42	15,540	705	600	3,365	2,600	7,270	0.05%	14,336
28	1.2143	25	9,250	130	10	0	2,600	2,740	0.03%	5,578

TABLE F-10. MODEL FACILITY COSTS AND IMPACTS (1999\$/year)

Facility ID	Weighting	Employment	Estimated Sales \$(1,000)	Waste Mgmt. Costs	Transportation Costs	Analytical Costs	Administrative Costs	Total Costs	Total Costs as a Percent of Sales	Universe Total Cost ¹
29	4.0476	10	3,700	22	0	0	2,600	2,622	0.07%	18,148
30	1.1951	40	14,800	18,490	600	0	2,600	21,690	0.15%	25,542
31	1.1951	30	11,100	7,594	1,200	0	2,600	11,394	0.10%	15,592
32	1.0417	35	12,950	20	0	0	2,600	2,620	0.02%	4,674
33	4.0476	20	7,400	0	0	0	2,600	2,600	0.04%	18,073
34	1.1951	29	10,730	570	600	0	2,600	3,770	0.04%	7,229
35	1.1951	20	7,400	1	0	0	2,600	2,601	0.04%	5,338
36	4.0476	21	7,770	0	0	0	2,600	2,600	0.03%	18,073
37	1.1951	32	11,840	0	0	0	2,600	2,600	0.02%	5,336
38	1.2143	8	2,960	6	0	0	2,600	2,606	0.09%	5,432
39	1.0500	140	51,800	19,701	406	3,365	2,600	26,072	0.05%	29,360
40	1.0500	45	16,650	63	600	0	2,600	3,263	0.02%	5,862
41	4.0476	8	2,960	42	0	0	2,600	2,642	0.09%	18,306
42	1.0000	36	13,320	39	0	0	2,600	2,639	0.02%	4,498
43	3.6290	18	6,660	784	600	0	2,600	3,984	0.06%	22,387
44	4.0476	100	37,000	0	0	2,808	2,600	5,408	0.01%	37,591
45	1.0000	175	64,750	17,830	777	3,365	2,600	24,572	0.04%	27,035
46	1.1951	42	15,540	106	0	0	2,600	2,706	0.02%	5,470
47	1.1951	NA	NA	36,403	982	2,808	2,600	42,793	NA	53,292
48	3.6290	14	5,180	0	(0)	0	2,600	2,600	0.05%	16,204
49	1.1951	55	20,350	6,608	1,200	3,365	2,600	13,773	0.07%	21,640
50	3.6290	6	2,220	0	0	0	2,600	2,600	0.12%	16,204
51	1.1951	40	14,800	4,881	183	6,173	2,600	13,837	0.09%	24,900
52	1.2143	20	7,400	42	0	0	2,600	2,642	0.04%	5,492
53	1.1951	54	19,980	762,753	40,611	6,173	2,600	812,137	4.06%	884,600
54	1.0000	50	18,500	189	600	0	2,600	3,389	0.02%	5,755
55	1.0417	304	112,480	849	0	6,173	2,600	9,622	0.01%	16,460
56	1.0417	128	47,360	0	(0)	3,365	2,600	5,965	0.01%	10,671
57	1.0500	40	14,800	263	20	3,365	2,600	6,248	0.04%	11,029
58	1.2143	25	9,250	0	0	0	2,600	2,600	0.03%	5,422

TABLE F-10. MODEL FACILITY COSTS AND IMPACTS (1999\$/year)

Facility ID	Weighting	Employment	Estimated Sales \$(1,000)	Waste Mgmt. Costs	Transportation Costs	Analytical Costs	Administrative Costs	Total Costs	Total Costs as a Percent of Sales	Universe Total Cost ¹
59	4.0476	25	9,250	590	0	3,365	2,600	6,555	0.07%	44,743
60	1.0000	150	55,500	480	0	3,365	2,600	6,445	0.01%	10,887
61	1.1951	40	14,800	0	0	0	2,600	2,600	0.02%	5,336
62	1.2143	66	24,420	0	0	6,173	2,600	8,773	0.04%	18,295
63	1.1951	10	3,700	0	(0)	0	2,600	2,600	0.07%	5,336
64	4.0476	23	8,510	0	0	0	2,600	2,600	0.03%	18,073
65	1.0417	350	129,500	0	0	6,173	2,600	8,773	0.01%	15,694
66	3.6290	16	5,920	0	0	0	2,600	2,600	0.04%	16,204
67	1.0000	125	46,250	5,187	57	2,808	2,600	10,652	0.02%	14,319
68	4.0476	10	3,700	155	0	0	2,600	2,755	0.07%	18,653
69	1.0417	24	8,880	0	(0)	0	2,600	2,600	0.03%	4,651
70	1.1951	40	14,800	750	0	0	2,600	3,350	0.02%	6,105
71	1.1951	36	13,320	433	33	0	2,600	3,066	0.02%	5,848
72	1.0000	65	24,050	4,536	0	3,365	2,600	10,501	0.04%	14,357
73	1.2143	80	29,600	1,175	0	3,365	2,600	7,140	0.02%	14,400
74	4.0476	10	3,700	6,450	600	0	2,600	9,650	0.26%	44,661
75	3.6290	72	26,640	(0)	0	6,173	2,600	8,773	0.03%	54,675
76	1.2143	15	5,550	6,296	1,200	0	2,600	10,096	0.18%	14,502
77	1.0417	115	42,550	0	0	0	2,600	2,600	0.01%	4,651
78	4.0476	23	8,510	5	0	0	2,600	2,605	0.03%	18,099
79	4.0476	NA	NA	0	0	0	2,600	2,600	NA	18,073
80	1.0500	85	31,450	2,071	90	0	2,600	4,761	0.02%	7,763
81	1.0417	100	37,000	55,153	2,991	6,173	2,600	66,917	0.18%	70,929
82	1.1951	40	14,800	120	0	0	2,600	2,720	0.02%	5,532
83	1.1951	90	33,300	146	(0)	3,365	2,600	6,111	0.02%	12,482
84	1.2143	25	9,250	57	0	0	2,600	2,657	0.03%	5,518
85	4.0476	1	370	0	0	0	2,600	2,600	0.70%	18,073
86	1.1951	18	6,660	197	0	0	2,600	2,797	0.04%	5,546
87	1.1951	110	40,700	0	0	2,808	2,600	5,408	0.01%	11,099
88	1.2143	22	8,140	0	(0)	0	2,600	2,600	0.03%	5,422

TABLE F-10. MODEL FACILITY COSTS AND IMPACTS (1999\$/year)

Facility ID	Weighting	Employment	Estimated Sales \$(1,000)	Waste Mgmt. Costs	Transportation Costs	Analytical Costs	Administrative Costs	Total Costs	Total Costs as a Percent of Sales	Universe Total Cost ¹
89	1.1951	27	9,990	1,125	0	0	2,600	3,725	0.04%	6,491
90	1.1951	52	19,240	620	0	0	2,600	3,220	0.02%	6,013
91	1.0500	40	14,800	78	(0)	0	2,600	2,678	0.02%	4,800
92	1.0500	165	61,050	0	0	0	2,600	2,600	0.00%	4,688
93	1.1951	50	18,500	21	0	0	2,600	2,621	0.01%	5,371
94	3.6290	9	3,330	170	0	0	2,600	2,770	0.08%	16,845
95	4.0476	21	7,770	0	0	0	2,600	2,600	0.03%	18,073
96	1.1951	100	37,000	19,607	565	2,808	2,600	25,580	0.07%	32,379
97	4.0476	18	6,660	0	0	0	2,600	2,600	0.04%	18,073
98	1.1951	35	12,950	56,843	2,620	2,808	2,600	64,871	0.50%	74,836
99	1.0000	224	82,880	7,936	100	6,173	2,600	16,809	0.02%	24,102
100	4.0476	NA	NA	264,913	14,301	6,173	2,600	287,987	NA	1,085,960
101	1.2143	48	17,760	0	0	0	2,600	2,600	0.01%	5,422
102	1.2143	4	1,480	212	600	0	2,600	3,412	0.23%	6,896
103	1.0000	140	51,800	8,822	3	2,808	2,600	14,233	0.03%	16,921
104	1.1951	15	5,550	460	0	3,365	2,600	6,425	0.12%	12,998
105	1.0000	200	74,000	1,617	91	6,173	2,600	10,481	0.01%	16,826
106	1.1951	24	8,880	0	0	0	2,600	2,600	0.03%	5,336
107	4.0476	8	2,960	0	0	0	2,600	2,600	0.09%	18,073
108	3.6290	40	14,800	0	0	0	2,600	2,600	0.02%	16,204
109	1.0500	50	18,500	0	0	0	2,600	2,600	0.01%	4,688
110	1.2143	17	6,290	0	0	0	2,600	2,600	0.04%	5,422
111	1.0500	120	44,400	103	0	2,808	2,600	5,511	0.01%	9,901
112	3.6290	5	1,850	0	0	0	2,600	2,600	0.14%	16,204
113	4.0476	NA	NA	0	0	0	2,600	2,600	NA	18,073
114	1.0500	150	55,500	1,782	(0)	3,365	2,600	7,747	0.01%	13,326
115	3.6290	16	5,920	0	(0)	3,365	2,600	5,965	0.10%	37,175
116	1.0500	160	59,200	344	7	2,808	2,600	5,759	0.01%	10,075
117	1.1951	37	13,690	9	0	0	2,600	2,609	0.02%	5,351

TABLE F-10. MODEL FACILITY COSTS AND IMPACTS (1999\$/year)

Facility ID	Weighting	Employment	Estimated Sales \$(1,000)	Waste Mgmt. Costs	Transportation Costs	Analytical Costs	Administrative Costs	Total Costs	Total Costs as a Percent of Sales	Universe Total Cost ¹
118	1.1951	2	740	20,727	1,200	3,365	2,600	27,892	3.77%	36,593
119	1.0417	85	31,450	19,562	1,019	6,173	2,600	29,354	0.09%	35,463
120	1.1951	70	25,900	869	65	3,365	2,600	6,899	0.03%	13,270
121	4.0476	5	1,850	0	0	0	2,600	2,600	0.14%	18,073
122	3.6290	NA	NA	0	0	0	2,600	2,600	NA	16,204
123	1.2143	50	18,500	0	600	0	2,600	3,200	0.02%	6,673
124	1.1951	75	27,750	260	14	0	2,600	2,874	0.01%	5,635
125	2.1667	3	1,110	0	0	0	2,600	2,600	0.23%	9,674
126	8.8571	60	22,200	99	(0)	2,808	2,600	5,507	0.02%	83,012
127	8.8571	12	4,440	1,807	600	0	2,600	5,007	0.11%	62,420
128	1.8571	30	11,100	4,946	310	0	2,600	7,856	0.07%	17,188
129	2.1667	15	5,550	62	0	0	2,600	2,662	0.05%	9,790
130	7.6154	31	11,470	6,725	0	0	2,600	9,325	0.08%	77,979
131	1.0000	400	148,000	16,625	189	6,173	2,600	25,587	0.02%	31,901
132	1.0000	95	35,150	6,388	600	0	2,600	9,588	0.03%	10,980
133	1.0000	190	70,300	45	3	2,808	2,600	5,456	0.01%	9,334
134	8.8571	20	7,400	415	20	3,365	2,600	6,400	0.09%	94,648
135	2.1667	60	22,200	36,608	1,633	6,173	2,600	47,014	0.21%	116,203
136	2.1667	24	8,880	0	(0)	0	2,600	2,600	0.03%	9,674
137	7.6154	125	46,250	61,623	3,282	6,173	2,600	73,678	0.16%	567,382
138	1.8571	45	16,650	260	20	0	2,600	2,880	0.02%	8,770
139	8.8571	8	2,960	152	0	0	2,600	2,752	0.09%	40,703
140	1.8571	70	25,900	0	0	0	2,600	2,600	0.01%	8,292
141	1.0000	260	96,200	1,190	90	6,173	2,600	10,053	0.01%	16,242
142	1.0000	350	129,500	1,622,671	87,058	6,173	2,600	1,718,502	1.33%	1,560,287
143	1.8571	32	11,840	975	600	0	2,600	4,175	0.04%	11,762
144	1.8571	20	7,400	760	0	2,808	2,600	6,168	0.08%	18,607
145	2.1667	4	1,480	2,568	600	0	2,600	5,768	0.39%	16,685
146	7.6154	3	1,110	378	1,200	0	2,600	4,178	0.38%	52,463
147	8.8571	27	9,990	260	600	0	2,600	3,460	0.03%	50,648

TABLE F-10. MODEL FACILITY COSTS AND IMPACTS (1999\$/year)

Facility ID	Weighting	Employment	Estimated Sales \$(1,000)	Waste Mgmt. Costs	Transportation Costs	Analytical Costs	Administrative Costs	Total Costs	Total Costs as a Percent of Sales	Universe Total Cost ¹
148	2.2500	100	37,000	49,164	2,744	6,173	2,600	60,681	0.16%	139,681
149	2.2500	110	40,700	6,667	54	2,808	2,600	12,129	0.03%	34,098
150	8.8571	5	1,850	22	0	0	2,600	2,622	0.14%	39,756
151	8.8571	29	10,730	96	600	0	2,600	3,296	0.03%	49,650
Total			3,296,700	3,519,941	186,785	220,534	392,600	4,319,860	0.12%	7,271,519

¹ Weighted total times extrapolation factor 1.7173 (972/566) to arrive at the industry total.

Waste management costs include only treatment and disposal costs.