

SWMP APPENDIX C
INDUSTRIAL WASTE SURVEY RESULTS

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1.0 INTRODUCTION AND SUMMARY

CHA has been retained by the City of Albany for preparation of a new Solid Waste Management Plan (SWMP) for the Capital Region Solid Waste Management Partnership (the Planning Unit). As part of the SWMP, CHA has studied several types of waste in the total solid waste stream of Planning Unit in order to determine waste generation rates and other data. One of the waste streams studied to obtain such data is non-hazardous industrial solid waste.

According to Census data, there were 260 manufacturing facilities in Albany County in 2002, employing a total of more than 9,000 people. Not all of these facilities or employees are located in the planning unit communities, but a substantial number are believed to be, as well as manufacturing establishments in the City of Rensselaer and the Town of East Greenbush in Rensselaer County.

In order to better understand the waste management practices among these industrial establishments a survey was prepared and distributed to major manufacturing employers in the planning unit. CHA compiled information about these facilities obtained from the 2008 New York Manufacturers Register (Manufacturers' News, Inc. 2008) and survey forms and cover letters were sent to approximately 135 establishments which had more than 10 employees. Of these, 45 had more than 50 employees and 25 had more than 100 employees. The letters were sent on February 10, 2009.

A copy of the Industrial Waste Survey Form and Cover Letter are presented in Section 2. The survey included questions regarding current solid waste management and recycling practices, as well as any special problems or issues faced with either solid waste management or recycling.

The survey responses were compiled into a summary table, presented in Section 3.

2.0 SURVEY FORM AND COVER LETTER

This Section presents a copy of the Industrial Waste Survey Form and Cover Letter.



February 10, 2009

RE: Industrial Solid Waste Survey
Capital Region SWMP

Dear Plant Manager:

Our firm is working with the City of Albany to assist with the development of a new Solid Waste Management Plan (SWMP) for the Capital Region for the next 10 to 20 years. Part of the SWMP is focused on solid waste/recycling collection practices of the industrial sector within the Planning Unit. You are being contacted because your business is believed to be among the largest industrial establishments located in the Planning Unit.

The purpose of the attached survey is to identify current solid waste management practices, including recycling, reuse, and other waste reduction programs for the non-hazardous solid wastes generated at your facility. This data will be used to determine waste generation rates as well as to evaluate changes that could be implemented to increase the overall effectiveness of solid waste management programs. Your completion of this information will allow us to more accurately characterize the waste stream and to plan for future needs.

If we have not directed this correspondence to the appropriate person, please forward it to their attention. The survey response should be completed and returned by February 27, 2009 as indicated on the attached survey. Should you have any questions regarding the enclosed survey, or the project in general, please feel free to contact the undersigned at (518) 453-8287.

Very truly yours,



Valerie Spies
Assistant Project Engineer



Kenneth G. Gallagher, P.P., AICP
Principal Planner

INDUSTRIAL MANUFACTURERS SOLID WASTE/RECYCLING COLLECTION PRACTICES SURVEY

Part I. General Information

Firm name _____ Facility name _____

Street address _____ Mailing address _____

Contact Person/Survey Respondent _____

Title _____

Contact telephone # _____

Principal Product Your Facility Produces _____

Number of Employees: Full time _____ Part time _____

Hours of Operation: _____

SIC Code(s): _____

Part II. Solid Waste/Recyclable Information

1. How is non-hazardous solid waste collected for recycling or disposal (note all that apply)?

- Self haul to disposal or recycling facilities? (name/contact information of facility)

- Private hauler contracted by your business? (name/contact information of hauler)

2. Which solid waste management facility(s) are used by your business?

3. Approximately how much non-hazardous solid waste did you dispose of in 2008?
_____ tons.

4. What percentage of non-hazardous solid waste was disposed of onsite in 2008?
_____ %

5. Please describe any unique or problematic elements of your waste:

6. How much do you expect your waste volume to increase or decrease over the next five (5) years? _____% per year

Reason for increase/decrease: _____

7. Do you anticipate any significant changes in your waste management practices in the next five (5) years? If so, please describe:

Part III. Reuse and Recycling Program Questions

1. Please describe any material reuse or recycling at your facility:

2. What percentage of non-hazardous solid waste is recycled or reused on-site in 2008?
_____%

3. Do you keep records or prepare reports regarding your waste reduction and recycling program? Please describe:

4. Are there barriers that reduce your recycling program's effectiveness or result in no recycling at your business? Please describe:

5. Suggestions to improve the recycling program?

Part IV. Waste Characterization

1. Waste stream/recyclable composition information

Please estimate the composition of your non-hazardous solid waste stream and the amount you reused, or recycled, and disposed for the following categories, in **tons/year** if possible. If other units of measurement are used please specify.

	A	=	B	+	C
	Material Generated		Material Recycled or Reused		Material Disposed
❖ Aluminum	_____		_____		_____
❖ Ferrous Metals	_____		_____		_____
❖ Other metals (specify)_____	_____		_____		_____
❖ Newspaper	_____		_____		_____
❖ Office paper	_____		_____		_____
❖ Corrugated Cardboard	_____		_____		_____
❖ Plate Glass	_____		_____		_____
❖ Tempered Glass	_____		_____		_____
❖ Ceramics	_____		_____		_____
❖ Glass bottles & jars	_____		_____		_____
❖ Other Glass (specify)_____	_____		_____		_____
❖ Plastic (HDPE and PET)	_____		_____		_____
❖ Plastic (PVC)	_____		_____		_____
❖ Other Plastic (specify)_____	_____		_____		_____
❖ Rubber/Tires	_____		_____		_____
❖ Dry cell or other batteries	_____		_____		_____
❖ Lead acid batteries	_____		_____		_____
❖ Oil/oil filters	_____		_____		_____
❖ Textiles	_____		_____		_____
❖ Construction & Demolition Debris	_____		_____		_____
❖ Yard Waste	_____		_____		_____
❖ Food Waste	_____		_____		_____
❖ Wooden Pallets	_____		_____		_____
❖ Medical Waste	_____		_____		_____
❖ Electronics (Specify)	_____		_____		_____
❖ Mixed Refuse (such as cafeteria and office waste)	_____		_____		_____
❖ Other (specify)_____	_____		_____		_____
❖ Other (specify)_____	_____		_____		_____
TOTAL	_____	=	_____	+	_____
	A		B		C

Note: The total disposed should equal the value entered in Part II, Question 3.

THANK YOU FOR YOUR TIME.

Please FAX or email completed survey form by February 27, 2009 to:

CHA, LLP

Attn: Valerie Spies, Assistant Project Engineer

Fax Number: 973.299.1123

vspies@chacompanies.com

Telephone: (518) 453-8287

3.0 SURVEY RESPONSE SUMMARY

CHA set a survey response deadline of February 27, 2009, approximately three weeks from the time the surveys were sent out. During that time, CHA staff was available to answer any questions regarding the survey. Five surveys were returned to CHA as undeliverable from the Post Office, and 14 survey responses were received before the deadline. In the following weeks, CHA continued to receive several additional survey responses from the industrial firms.

CHA then telephoned the 25 largest firms, those with 100 employees or more, to determine the status of the industrial waste surveys and to inquire whether the firm had any additional questions or comments that would assist them with completion of the survey. Additional surveys were sent via email or fax based upon these telephone discussions and this effort yielded 3 additional survey responses. In total, CHA received 19 industrial waste survey responses.

The survey responses were compiled into a summary table, presented in this Section 3 so the information from each firm could be compared side by side with the other firms. Most firms were able to provide information about their current solid waste management practices on a descriptive level, however, many were not able to provide quantities of solid waste generated, recycled and discarded, and instead provided estimates of percentages of each material component or other means of reporting their solid waste management. Some indicated that the categorization of materials was handled by the solid waste hauler, or that the tonnage generated, recycled and disposed was unknown.

The table summarizing the industrial solid waste survey results is attached below:

Industrial Waste Survey Data

Company	Company #1	Company #2	Company #3	Company #4	Company #5								
General Information													
Product	not indicated	metal parts	asphalt concrete	dental manufacturing	installation of sun rooms								
Employees	25	75	4 FT/ 20 PT	40	13								
SIC Code	3678 - NAICS 334417	3449 - NAICS 332114	2951 - NAICS 324121	3843 - NAICS 339114	3448 - NAICS 332311								
Solid Waste/Recyclable Information													
Non-hazardous solid waste collection	private hauler - thru lessor	private hauler	private hauler	private hauler	private hauler								
Solid Waste Management facilities	Waste Management - contracted by Arsenal	Waste Management	Allied Waste Services, Safety Kleen, TCI Tire Center	Allied Waste	County Waste								
Disposed in 2008 (tons)	156 (approx)	unknown	160	not indicated	112								
Percentage disposed onsite in 2008	not indicated	100%	0	not indicated	0								
Unique or problematic elements?	not indicated	none	not indicated	not indicated	none								
Volume increase or decrease in next 5 yrs?	0	0 - should stay same	0	5% - business volume	0								
Significant changes in next 5 years?	none	none	no significant changes expected	No	No								
Reuse and Recycling Program Questions													
Material reuse or recycling at facility	cardboard and paper	metal scrap	no recycling of solid waste	cardboard and paper	aluminum cut off extrusions								
Percentage reused or recycled onsite in 2008	0	100	0	not indicated	10% recycled								
Records or reports for recycling/reduction?	No	No	No	No	Records regarding aluminum cutoffs that are brought to recycling yard								
Barriers to reduce effectiveness?	not indicated	N/A	No	No	would like to recycle expanded polystyrene foam								
Suggestions for improvement	not indicated	not indicated (respondent provided in %)	not indicated	not indicated	not indicated								
Waste Characterization (tons)	Information not provided												
		generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed
Aluminum		0	100	0							1.4	1.4	0
Ferrous Metals		0	100	0	min	min	min				0	0	0
Other Metals (specify)											0.35	0	0.35
Newspaper											0	0	0
Office paper		0	0	100				21		21	5	0	0
Corrugated Cardboard		0	0	100							0	0	0
Plate Glass											0	0	0
Tempered Glass											0.125	0	0.125
Ceramics											0	0	0
Glass Bottles & Jars					min		min				0	0	0
Other Glass (specify)											0	0	0
Plastic (HDPE and PET)											0	0	0
Plastic (PVC)					2		2				0	0	0
Other Plastic (specify)											0	0	0
Rubber/Tires					5		5				0	0	0
Dry cell or other batteries											0	0	0
Lead acid batteries											0	0	0
Oil/oil filters		0	100	0	1		1				0	0	0
Textiles											0	0	0
Construction & Demolition Debris											110	0	110
Yard Waste											0	0	0
Food Waste					min						0	0	0
Wooden Pallets		0	0	100	2		2				0.125	0	0.125
Medical Waste											0	0	0
Electronics (specify)											0	0	0
Mixed Refuse (such as cafeteria and office)					150			150		75	0	0	0
Other (specify)											0	0	0
Other (specify)											0	0	0
Total					160		10	150			112	1.4	110.6

Industrial Waste Survey Data

Company	Company #6			Company #7			Company #8			Company #9			Company #10		
General Information															
Product	pre-built sheds			paint, roof coatings, driveway sealers			wallboard, joint compound			stone			animal feed		
Employees	15			35			9			19			25		
SIC Code	not indicated - NAICS 321992			2851 - NAICS 325510			3275 - NAICS 327420			NAICS 327900			2048 - NAICS 311119		
Solid Waste/Recyclable Information															
Non-hazardous solid waste collection	private hauler			private hauler			private hauler			private hauler			private hauler		
Solid Waste Management facilities	BFI - Allied Waste			Waste Management, Allied Waste			Waste Management of Eastern New York			Waste Management of Upstate New York			Allied Waste		
Disposed in 2008 (tons)	not indicated			unknown			611.5			156 cy (estimate)			146		
Percentage disposed onsite in 2008	0			0			0			0			0		
Unique or problematic elements?	scrap lumber, vinyl and shingles siding			none			none			not indicated			N/A		
Volume increase or decrease in next 5 yrs?	10% decrease - business down			0			unknown - slowdown due to economy			not indicated			not indicated - trying to decrease waste		
Significant changes in next 5 years?	No			none			no			no			no		
Reuse and Recycling Program Questions															
Material reuse or recycling at facility	cardboard recycling			some latex paint reprocessed; metal cans & corrugated boxes sent to recycler via vendor			wallboard ground and reused; joint compound pumped to reclaim tank and reused			not indicated			all paper/plastic sent to recycler		
Percentage reused or recycled onsite in 2008	5% recycled			unknown			greater than 99%			not indicated			100		
Records or reports for recycling/reduction?	not indicated			no			track production waste; misc plant waste tracked through WM records			not indicated			Included in monthly report sent out by Cargill; all waste is tracked		
Barriers to reduce effectiveness?	used to recycle vinyl siding, but no longer			no			not indicated			not indicated			no		
Suggestions for improvement	not indicated			not indicated			not indicated			not indicated			reduce flushing at mill; use less packaging		
Waste Characterization (tons)															
	generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed
Aluminum	1%	1%	0%												
Ferrous Metals				X			5		5						
Other Metals (specify)															
Newspaper														0	
Office paper														1	
Corrugated Cardboard	5%	5%	0%	X			108		108					1	
Plate Glass															
Tempered Glass															
Ceramics															
Glass Bottles & Jars															
Other Glass (specify)															
Plastic (HDPE and PET)				X											
Plastic (PVC)															
Other Plastic (specify)	15%	0%	15%												
Rubber/Tires	45%	0%	45%												
Dry cell or other batteries														0	
Lead acid batteries														0.01	
Oil/oil filters														0	
Textiles														0.5	
Construction & Demolition Debris														0	
Yard Waste														0	1
Food Waste														0	1
Wooden Pallets	2%	0%	2%				30		30					24	
Medical Waste														0	
Electronics (specify)							0.5		0.5					0.05	
Mixed Refuse (such as cafeteria and office)	2%	0%	2%				468		468	X		X			
Other (specify)							5550	5550							
Other (specify)	20%	0%	20%				10	10						100	146
Total							6171.5	5580	611.5				275.06	127.06	148

Industrial Waste Survey Data

Company	Company #11			Company #12			Company #13			Company #14			Company #15	
General Information														
Product	sodium hypochlorite (bleach)			recycled paper			portland cement concrete			mfg. industrial ceramics, engineering design			printed m	
Employees	56			45-55			56			75			27	
SIC Code	2819; 2842; 5169; NAICS 325998			NAICS 322110			not indicated - NAICS 327320			3255 - NAICS 327124			2759 - NAICS	
Solid Waste/Recyclable Information														
Non-hazardous solid waste collection	private hauler			self-haul			private hauler			private hauler			private h	
Solid Waste Management facilities	Waste Management, Inc. (Rapp Road Landfill)			Company is high-grade paper recycling co.			County Waste - office waste; CF Van Hall Scrap Metal - disposal of scrap metal			County Waste			Northstar Recycling Gro	
Disposed in 2008 (tons)	20			not indicated			10			832 cy (estimate)			20	
Percentage disposed onsite in 2008	1			not indicated			0			100			0	
Unique or problematic elements?	not indicated			not indicated			N/A			none			none indi	
Volume increase or decrease in next 5 yrs?	should stay approx. same			-10% due to economy			0			10% - tough to determine, economy			5% - Increase	
Significant changes in next 5 years?	would like to recycle cardboard, plastic if no cost			not indicated			no			no			No	
Reuse and Recycling Program Questions														
Material reuse or recycling at facility	plastic containers/drums are reused after cleaning; obsolete computers recycled; office paper/periodicals			not indicated			waste concrete placed in forms and sold to contractors, also used for stackable wall units; waste oil combusted for heat			separate 8 cy dumpster used for paper & cardboard; any steel is sent to scrap yards			paper & cardboard collect compactor; aluminum	
Percentage reused or recycled onsite in 2008	1			not indicated			100			0			0	
Records or reports for recycling/reduction?	N/A			not indicated			Not directly			5S program at the plant			monthly tonnage tracked compactor storage coi	
Barriers to reduce effectiveness?	cost prohibitive to recycle			not indicated			No			discipline of employees; plastic soda disposal incentives			No	
Suggestions for improvement	would separate waste if no cost to company			not indicated			None						none indi	
Waste Characterization (tons)	generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed	generated	recycl
Aluminum					60									
Ferrous Metals							100	100	0					
Other Metals (specify)														
Newspaper					400									
Office paper					14000		2	0	2				250	250
Corrugated Cardboard					6000		1	1	0			416 cy/yr	10	10
Plate Glass														
Tempered Glass														
Ceramics												832 cy/yr		
Glass Bottles & Jars														
Other Glass (specify)														
Plastic (HDPE and PET)					100									
Plastic (PVC)					50									
Other Plastic (specify)														
Rubber/Tires							5	5	0					
Dry cell or other batteries														
Lead acid batteries							2	2	0					
Oil/oil filters							8	7.5	0.5					
Textiles														
Construction & Demolition Debris														
Yard Waste														
Food Waste														
Wooden Pallets					75									
Medical Waste														
Electronics (specify)														
Mixed Refuse (such as cafeteria and office)							0.5	0	0.5					
Other (specify)														
Other (specify)														
Total					20685		118.5	115.5	3				260	260

Industrial Waste Survey Data

Company	Company #16			Company #17			Company #18			Company #19		
General Information												
Product:	fabricates reinforcing steel			ready mix concrete			cannons			do not produce a product		
Employees	40			40			600			600		
SIC Code	NAICS 332900			NAICS 327320			0630-1430 (NAICS 332994)			4225 - NAICS 493110		
Solid Waste/Recyclable Information												
Non-hazardous solid waste collection	private hauler			private hauler			private hauler			private hauler		
Solid Waste Management facilities	Heritage Crystal Clean Environmental Services, LLC			Allied Waste Systems			Waste Management - Colonie Landfill			Allied Waste - Flapp Road Landfill		
Disposed in 2008 (tons)	403			20			613			286		
Percentage disposed onsite in 2008	0			0			0			0		
Unique or problematic elements?	none			none			none			not indicated		
Volume increase or decrease in next 5 yrs?	0 - expect zero change			10% - growth			0			0		
Significant changes in next 5 years?	no			no			no			no		
Reuse and Recycling Program Questions												
Material reuse or recycling at facility	none			crush and reuse concrete for fill material & waste blocks			source separate recyclables			recycle cardboard, cans, bottles		
Percentage reused or recycled onsite in 2008	96.8			99			0			50		
Records or reports for recycling/reduction?	no			sales receipts; crushing reports			Solid Waste Annual Report (SWARs) U.S. Army; no separate records of recyclables			monitor the recycle amounts sent to vendor for reimbursement		
Barriers to reduce effectiveness?	no			None			No			No		
Suggestions for improvement	better paper recycling within Co.			None			None			not indicated (respondent provided in %)		
Waste Characterization (tons)												
	generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed	generated	recycled	disposed
Aluminum				0.5	0.5	0						
Ferrous Metals	387	387	0	2	2	0						
Other Metals (specify)												
Newspaper												
Office paper												
Corrugated Cardboard	3	3	0	2	2	0				5%	5%	0%
Plate Glass										90%	90%	0%
Tempered Glass												
Ceramics												
Glass Bottles & Jars												
Other Glass (specify)												
Plastic (HDPE and PET)				0.5	0.5	0						
Plastic (PVC)												
Other Plastic (specify)												
Rubber/Tires				2	2	0						
Dry cell or other batteries				0.2	0.2	0						
Lead acid batteries				1	1	0						
Oil/oil filters				2	2	0						
Textiles												
Construction & Demolition Debris				1	0	1						
Yard Waste												
Food Waste												
Wooden Pallets				2	0	2						
Medical Waste												
Electronics (specify)												
Mixed Refuse (such as cafeteria and office)	13	0	13	17	0	17				5%	0	5%
Other (specify)				7650	7650	0						
Other (specify)												
Total	403	390	13	7680.2	7660.2	20						