

TOWN OF ST. JOHNSBURY SOLID WASTE IMPLEMENTATION PLAN (SWIP)

Dated: _____

Adopted: _____

Approved: _____
for DEC use only

This plan has been developed to manage solid wastes in the municipality of St. Johnsbury in conformance with the Vermont Solid Waste Management Plan (2001).

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In order to be consistent with the Revised Vermont Solid Waste Management Plan, this plan describes how The Town of St. Johnsbury will achieve the following priorities (in descending order) of Title 10 V.S.A. Section 6604(a)(1):

1. The greatest feasible reduction in the amount of waste generated;
2. Reuse and recycling of waste to reduce to the greatest extent feasible the volume remaining for processing and disposal;
3. Waste processing to reduce the volume or toxicity of the waste stream necessary for disposal;
4. Land disposal of the residuals.

This Plan will cover a period of five years. Every two years, an updated implementation plan will be prepared to provide the Vermont Agency of Natural Resources (ANR) with data to track the Town of St. Johnsbury's progress and performance and to ensure conformance with the Plan. The Town of St. Johnsbury will demonstrate that it meets the State Solid Waste Plan Priorities.

The Plan will be amended by the following procedure. The Town Manager will be the point of contact for any proposed amendments. The Manager will review any proposed amendments and provide an opportunity for at least two public hearings. The public hearings would be warned in accordance with procedures followed by the Town of St. Johnsbury. Following the hearings the Town Manager will report on the proposed amendments to the Selectboard. The Selectboard will vote on amending the Plan.

The Selectboard acts as the governing body for the Town of St. Johnsbury. Among other items they will act on the recommendations of the Town Manager concerning issues of solid waste management.

The Town Manager is responsible for the orderly implementation of the Solid Waste Implementation Plan (SWIP) and can call on various community members to assist in the creation of committees to address certain components of the SWIP. He can work with private sector waste management facilities and contractors for the efficient management of the SWIP.

The St. Johnsbury Recycling and Waste Reduction Committee (RWRC) is composed of community members working with the Town Manager and the private sector to develop and implement ongoing educational programs in various areas of waste reduction including composting, recycling and other areas of waste diversion and minimization.

The Interstate Waste Services Transfer Station located on High Street in St. Johnsbury provides a collection point for area residents to bring municipal solid waste, recyclables, used crankcase oil, construction and demolition debris, bulky waste, tires, white goods and other electronic items. The transfer station provides special services at reduced rates during spring and fall collection events held in conjunction with Town sponsored Household Hazardous Waste Collections. There is a Host Town Agreement that is in the process of being updated that identifies certain benefits that the Transfer Station owners will provide to the Town of St. Johnsbury.

This plan includes the following components:

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SECTION 1. IMPLEMENTATION REPORT FOR THE TOWN OF ST. JOHNSBURY

A. Calculation of the total annual disposal tonnage for municipal solid waste generated in St. Johnsbury:

**TABLE 1
TOTAL ANNUAL MSW DISPOSAL ESTIMATE for calendar year 2001**

FACILITIES/SERVICES USED	ESTIMATED ANNUAL TONNAGE
Curbside Pickup-residential: WSI, Casella,	
Curbside Pickup-commercial: Casella, WSI	
WSI Transfer Station	
Landfills Out of St. Johnsbury accepting St. Johnsbury Waste: Waste USA Landfill, Moretown Landfill, Inc.	
Total Annual MSW Disposal Estimate	5,181.40 Tons*

Include MSW that is landfilled or incinerated only. * Estimate based on 3.75 lbs/capita/day
Do not include waste that is recycled or otherwise diverted from disposal

B. Calculation of the per capita disposal rate for municipal solid waste generated in St. Johnsbury:

**TABLE 2
PER CAPITA MSW DISPOSAL (i.e., landfilled or incinerated) Est. for calendar year 2001**

1.	Total annual disposal estimate in tons	5,181.40 Tons/Year
2.	Total annual disposal estimate in pounds	10,362,800 Pounds/Year
3.	Year round population in 2001	7,571
4.	Seasonal population in 2001	20
5.	Total adjusted population year round population + (seasonal population)	7591
6.	Estimated Annual per Capita MSW Disposal	1,365.14 lbs./person/year
7.	Estimated Daily Per Capita MSW Disposal	3.75

C. List the generators of sludge and septage located in The Town of St. Johnsbury.

**TABLE 3
INVENTORY OF SLUDGE AND SEPTAGE GENERATORS IN THE TOWN OF ST. JOHNSBURY FOR CALENDAR YEAR 2001**

Generators	Total Annual Amt. Generated	Location of Generators	Present Final Management Option(s)
Biosolids			
St. Johnsbury Sewage Treatment Plant	302 Dry Tons/year*	St. Johnsbury	Land Application
Septage			
B and B Septic, Michaud's Septic, Fowler, Calkins, Rexford	37 Dry Tons/year	St. Johnsbury	Wastewater Treatment Facility

*Normal annual tonnage of biosolids landspread is ~150 Tons. In 2001 an extra clean out of a digester resulted in the additional tonnage

**TABLE 4
SLUDGE & SEPTAGE MANAGEMENT FACILITIES IN THE TOWN OF ST. JOHNSBURY**

Facility for Final Management	Location
Land Application Sites:	
Glenn Olcutt Farm, Two Sites	St. Johnsbury

E. Calculation of biosolids (wastewater treatment plant sludge) beneficial use rate:

**TABLE 5
BIOSOLIDS BENEFICIAL USE RATE Data Year: 2001**

1.	Tons of biosolids landspread	302 dry tons*
2.	Tons of biosolids composted (or otherwise treated to achieve "Class A" and qualify for distribution to the public)	
3.	Tons of biosolids beneficially used (add lines 1 and 2)	302 dry tons*
4.	Tons of biosolids landfilled	0 dry tons
5.	Tons of biosolids used in landfills (e.g., as daily cover)	0 dry tons
6.	Tons of biosolids incinerated	0 dry tons
7.	Tons of biosolids disposed (add lines 4, 5 and 6)	0 dry tons
8.	Total tons of biosolids generated (add lines 3 and 7)	302 dry tons*
9.	Biosolids beneficial use rate divide line 3 by line 8 and multiply by 100)	100%

*Normal annual tonnage of biosolids landspread is ~150 Tons. In 2001 an extra clean out of a digester resulted in the additional tonnage.

F. Current prices of public or private sector solid waste services used by residents of the town or district (pay-per-bag, per ton, recycling, special waste or other fees):

**TABLE 6
CURRENT PRICES**

MATERIAL	FACILITY/SERVICE	COST TO USER (change units below as appropriate)
MSW (municipal solid waste)	residential curbside pickup	\$/pickup frequency/size of container
	Vermont Hauling	\$40.52/month/weekly / 3 bag limit/30 gal bag
	Casella	\$40.00/month/weekly/ 4 bag limit/30 gal bag
	Jeff Hooker and Sons Trucking	\$3.00/30 gal. bag
	LaRose Public Trucking	\$3.00/30 gal. bag
	commercial curbside pickup	\$/pickup frequency/size of container
	Vermont Hauling	\$116.70/month/weekly/2 yd dumpster \$189.70/month/weekly/4 yd dumpster \$263.20/month/weekly/6 yd dumpster*
	Casella	~\$110/month/weekly/2 yd dumpster ~\$160/month/weekly/4yd dumpster ~\$285/month/weekly/6 yd dumpster*
	St. Johnsbury Transfer Station, High Street	\$3.00/15 Gallon Bag \$4.00/30 Gallon Bag \$5.00/45 Gallon Bag
	Recyclables	residential
	St. Johnsbury Transfer Station	\$0.50/30 Gallon Bag: Includes Glass containers, tin and steel food containers, aluminum cans/foil, #1 & #2 plastic, mixed paper, cardboard, boxboard, brown kraft paper, newspapers, glossy paper
	Casella Curbside	30 Gallon Bag/weekly Included with monthly trash collection
	Vermont Hauling	Being revised
	Commercial	\$/pickup frequency/size of container
	Casella	\$50/month/2yd dumpster, price reduced with more frequent collection
	Vermont Hauling	\$45/month/2yd dumpster
Construction/ Demolition Debris	St. Johnsbury Transfer Station	\$200.00/Ton
Tires	St. Johnsbury Transfer Station	\$5.00/car/pickup truck tire \$18.00/car/pickup truck tire with rim \$235.00/Ton
Appliances	St. Johnsbury Transfer Station	Microwaves-\$12.50 TVs-\$15.00-\$20.00 Appliances-\$15.00/Each

* Prices for commercial MSW collection will vary based on weight of waste from different commercial accounts and frequency of collection. Examples shown are generic.

G. Current destinations for all wastes and recyclables collected at town/district facilities, and current transportation and tipping (disposal) fees paid by towns or district:

**TABLE 7
CURRENT WASTE DESTINATIONS**

MATERIAL	DESTINATION FACILITY (name the specific landfill, transfer station, etc., not the hauler)	FEE PAID
MSW		
	Waste USA Landfill, Derby	\$79.60/Ton
	Moretown Landfill, Inc., Moretown	\$76.50/Ton
Construction/Demolition Waste		
	Moretown Landfill, Inc., Moretown	\$76.50/Ton
	Waste USA Landfill, Derby	\$90.90/Ton
White Goods (Washers, Dryers, Stoves, Refrigerators, Freezers)	All Metals, East Hardwick,	~\$300.00/Special Event~ \$10.00/Unit-freon removal
Recyclables (#1, #2 Plastic, Brown, Green and Clear Glass, tin, aluminum, all fibers)	NEK Materials Recovery Facility (MRF), Chittenden County MRF other markets	Varies
Tires	J.P. Routhier, Littleton, Ma.	\$235/Ton

H. Contracted or anticipated disposal facility (or facilities) for MSW and construction/ demolition debris for the next 5 years:

MSW: Moretown Landfill, Inc., Moretown, VT
Waste USA Landfill, Coventry, VT
Mount Carbury Landfill, Berlin, New Hampshire
North Country Environmental Services Landfill, Bethlehem, NH

C/D waste: Moretown Landfill, Inc., Moretown, VT
Waste USA Landfill, Coventry, VT
Mount Carbury Landfill, Berlin, New Hampshire
North Country Environmental Services Landfill, Bethlehem, NH

I. HHW/CEG Collection Programs for household hazardous wastes, conditionally exempt generator wastes, landfill banned wastes, and special wastes generated in the Town of St. Johnsbury are provided by:

Contracted Hazardous Waste Management Companies. Current contract is with APT Environmental Services

Permanent collection/drop-off facility: 55 Gallon Drums for Used Crankcase Oil Collection at WSI St. Johnsbury Transfer Station, High Street, St. Johnsbury:

Dates/hours: St. Johnsbury Transfer Station: 7 am-4 pm, Mon.-Thurs.; Fri.-Sat. 7 am-12 pm.

Household Hazardous Waste Collection Days: Date of last 2 collection events:
May 17, 2008 and September 20, 2008.

Location: Main Street Municipal Parking Lot, St. Johnsbury, Vermont

Number of collection days/year: Two Collections Annually.

Date of next collection event: May 16, 2009.

Location: Main Street Municipal Parking Lot, St. Johnsbury, Vermont

J. Summary of illegal disposal (illegal dumping and burning) problems:

The Town of St. Johnsbury occasionally gets complaints concerning junk cars and trash dumping on private property. Burning of trash is something that occurs from time to time. There is periodic burning of construction and demolition debris which can include painted wood, insulation and plastics. The Town works with the ANR's Environmental Enforcement Officers when there are trash/junk car complaints. When complaints are registered for illegal burning, the Town works with the St. Johnsbury Fire Chief and the Health Officer. The Air Pollution Control Division of the Vermont Department of Environmental Conservation can also get notified of illegal burning of trash. Efforts will be made to establish a log to track the number and type of illegal waste disposal events and their outcome.

SECTION 2. WASTE DIVERSION ACTION PLAN

The MSW data from the New England Waste Services of Vermont, Inc. (NEWS) and the Moretown Landfill, Inc. (MLI) shows that the St. Johnsbury tonnage data is skewed much higher than reasonable and does not include Construction and Demolition Debris. All of the MSW is going to these two landfills either directly or through the Hyde Park or the Interstate Waste Services, Inc. St. Johnsbury Transfer Station. Based on the lack of a surcharge by the Town of St. Johnsbury, it is believed that partial loads that were collected in St. Johnsbury and included MSW from Towns that had a surcharge that went to the NEWS and MLI Facilities was identified as St. Johnsbury MSW. Haulers operating in St. Johnsbury were surveyed and no MSW is being transported out of state. Based on communities with similar populations and daily per capita waste generation, St. Johnsbury's per capita waste generation is conservatively estimated at 3.75 pounds/day or 5,181.40 Tons per year. Focused discussions with the waste hauling companies and transfer stations serving St. Johnsbury will better define the MSW quantities from this town for the next implementation plan update.

The goal of this action plan is to reduce the per capita disposal rate for municipal solid waste (msw) generated in the Town of St. Johnsbury to approx. 2.7 pounds per person per day.

Goal: Reduce waste generation and reduce toxics use.

1.) St. Johnsbury contracted for 2007-2008 with the Association of Vermont Recyclers (AVR) to provide education on minimizing waste and related fields to students and adults. Technical assistance to reduce hazardous waste in schools will be initiated through AVR's EP Cleaner

Audit and Assistance Program. Also, the St. Johnsbury Recycling and Waste Reduction Committee (RWRC) - which is composed of volunteers from around the community including educators, a master composter, a website designer, selectboard representative, business owners/employees and others - will produce news releases, posters and website educational materials, recycling guidelines and awareness programs concerning reducing disposal and alternatives to waste generation. The Town Manager is committed to ensuring the successful implementation of (RWRC) Programs that are compatible with the SWIP and the Town Manager is responsible for ensuring that research and information transfer is done through a variety of media including the press, radio, local television, website and public meetings. The RWRC has been meeting on a monthly basis since November, 2006. Interstate Waste Services, Inc., which operates the St. Johnsbury Transfer Station, is producing brochures on recycling and other waste management information as a result of cooperative meetings with the RWRC and the Town Manager.

Goal: Increase reuse.

2.) The Town of St. Johnsbury and Interstate Waste Services establish special collection events that foster reuse such as tires and appliances at the St. Johnsbury Transfer Station. The RWRC is implementing compost educational programs at the Farmers Market. Computers and other electronics are collected in conjunction with the House Hold Hazardous Waste Collections and wherever possible the electronics are tested and cleaned up and if in good working order they are resold. A paint drop and swap is also held during the household hazardous waste collection event and paints, cleaners and other useable chemicals can be taken out of the waste stream and reused by St. Johnsbury residents. Used crankcase oil is collected at the St. Johnsbury Transfer Station and is reused as heating oil in a properly-fitted oil burner. Encourage and publicize the Vermont Business Exchange. Encourage St. Johnsbury to purchase products made of recycled and composted materials, such as crushed glass for road traction material or for subsurface drainage projects. Also, reuse materials for things like road and building products. Encourage the use of crumb rubber from tires for roads, parking lots and playgrounds, and shredded rubber for subsurface drainage, floor, wall and blasting mats, landscape mulch and other applications. Tires collected during special collection events could be reused and not burned as a tire derived fuel.

Goal: Increase the residential (single and multi-family) recycling participation rate, capture rate, collection efficiencies and types of materials recycled.

3.) Single stream collection of recyclables by some local haulers is now occurring. St. Johnsbury supports efforts to get local residents to bring their recyclables to the St. Johnsbury Transfer Station which has now developed single stream collection. Activities are now occurring to educate the public on both the costs and cost savings and environmental/energy savings of recycling. Recycling guidelines produced by Interstate Waste Services, Inc. in conjunction with the (RWRC) are due to be released in August, 2007. Efforts to get the GotBooks.com program into the Town of St. Johnsbury to recycle books, software, records, CDs, DVDs, audio and video tapes was initiated in the fall of 2006. Siting of a trailer for this program is being reviewed.

Goal: Increase the seasonal home/resort participation rate.

4.) There is not a significant seasonal home/resort population in St. Johnsbury (20 people, 2000 Census). All the activities that are available to permanent residents would be available to the seasonal folks. Work with the Green Hotels Program. Make organizations aware of the cost savings and avoided cost of disposal from recycling.

Goal: Increase the commercial recycling participation rate, capture rate, collection efficiencies and materials recycled.

5.) Both major haulers, Casella and Interstate Waste Services, Inc., are now involved in commercial recycling ventures. Work with the Northeast Kingdom Chamber of Commerce and hauling companies to make them aware of recycling opportunities within St. Johnsbury. Send out surveys and information on recycling opportunities to commercial entities in St. Johnsbury.

Goal: Increase the institutional recycling participation rate, capture rate, collection efficiencies and materials recycled. Note: institutions include schools, governments, hospitals, etc.

6.) Recycling collections in conjunction with municipal solid waste collections are competitively solicited for a 2 year period for the Town of St. Johnsbury, the St. Johnsbury School and the St. Johnsbury Academy. The recycled materials collected include: all colors of glass, tin and steel containers, aluminum, plastics #1 through #7 except for low density polyethylene and polystyrene, newsprint, glossy inserts, magazines, office/school white paper and cardboard. An annual report to each organization detailing the amount and type of recycled materials collected will be available in July, 2007. Vermont Hauling is the current contractor for this program. Work with the St. Johnsbury School District, St. Johnsbury Academy and the Northeastern Vermont Regional Hospital to remind them of recycling opportunities. Periodically survey the schools concerning recycling participation and capture rates. Contact all town offices to see if there are any recycling issues that need to be addressed. Work with the State to ensure that maximum participation in recycling is occurring.

Goal: Prevent the incineration or disposal of marketable recyclables.

7.) Work with Interstate Waste Systems and Casella to ensure that opportunities to send recyclables to the Chittenden County MRF, the Northeast Kingdom MRF or other markets are both available and cost effective.

Goal: Increase construction/demolition debris reduction, reuse and recycling.

8.) Make the building supply companies and building contractors in St. Johnsbury aware of the Vermont Business Materials Exchange both on line and in hard copy. Also share information from ANR/AVR reuse and recycling brochures.

Goal: Increase organic waste recycling (leaf/yard, food waste, brush, stumps, appropriate papers).

9.) Compost bin sales were expanded in 2007 and the Annual Truck Load compost bin sale will include St. Johnsbury in 2008. Education of residents in St. Johnsbury on composting is being accomplished through a weekly presence at the St. Johnsbury Farmer's Market and workshops on composting are being done at this site by a member of the RWRC . Composting assistance to reduce organic waste streams is being accomplished as one of the contracted areas with the Association of Vermont Recyclers support to schools. Coordination of the commercial composting program established by the Central Vermont Solid Waste District and the Northeast Kingdom Solid Waste District to include St. Johnsbury restaurants, supermarkets and schools is currently being negotiated. Locating a yard waste collection site at the St. Johnsbury Transfer Station is being reviewed. The distribution of educational posters in store windows; an ongoing

presence of news releases on composting and ads concerning composting activities and letters to the editor explaining various aspects of composting is happening in St. Johnsbury.

Goal: Implement an ongoing waste diversion education/information/ outreach program for schools, youth, consumers and businesses.

10.) As mentioned in the first goal, St. Johnsbury has contracted with the Association of Vermont Recyclers for a variety of programs that will result in educating residents on waste diversion activities. Three theater programs will be provided in the K-6 and 7-adult area in 2007-2008 at the Elementary School and the St. Johnsbury Academy. Improved signage and educational materials explaining how single stream recycling works and that it now is in operation at the St. Johnsbury Transfer Station will help to divert more waste to the recycling stream. AVR will be the prime provider of educational programs and workshops in the schools.

SECTION 3. BIOSOLIDS AND SEPTAGE MANAGEMENT PLAN

**TABLE 8
ACCEPTABLE MANAGEMENT OPTIONS FOR SLUDGE AND SEPTAGE**

Management Option	Check if Acceptable
Land Application	x
Composting or Further Treatment to Qualify for Distribution	x
Landfilling or Use as Landfill Cover(both require dewatering)	x
Incineration	x
Regional septage receiving and/or treatment facility	x
Other Wastewater Treatment Plants	x
Other	x

- A. What percentage of biosolids generated at wastewater treatment plants are currently beneficially used? 100%**
- B. Identify barriers to the beneficial use of biosolids in your municipality. What steps will be taken to address these barriers and increase the beneficial use of biosolids? The barriers include potential odor issues, potential ground and surface water contamination, potential health concerns and general public perception concerns.**
The beneficial use of biosolids should not be a problem in St. Johnsbury. This is based on ensuring that the biosolids that are produced are being managed in accordance with their certification and that efforts are taken to minimize odors and that sampling and testing is being done as necessary.
- C. How will the municipality identify and reduce sources of contaminants in biosolids generated in the municipality?** The Town of St. Johnsbury’s Wastewater Treatment Plant (WWTP) Solid Waste Management Facility Certification requires monitoring of the biosolids prior to land spreading and groundwater monitoring of the land spreading sites. An inventory of facilities discharging into the WWTP will identify type and amount of contaminants that could be impacting the treatment plant. An evaluation of the industrial processes that create the potential contaminants will need to be accomplished in order to

modify the processes and eliminate the contamination. This could be done with outreach from the VT Environmental Assistance Program.

- D. Describe the municipality's plan for public outreach on biosolids and septage management.** Public notice on the draft certification for the WWTP explaining all the activities of the management of the biosolids is accomplished. The St. Johnsbury Water and Sewer Department under the direction of the Town Manager will ensure that the potential hazards associated with wastes from wastewater treatment systems and septic systems are explained through information that is put out on the website and hard copy. The dissemination of this information to the public will be available through public meetings, news releases, radio shows and other events.

SECTION 4. HOUSEHOLD HAZARDOUS WASTE, CONDITIONALLY EXEMPT GENERATOR WASTE, LANDFILL BANNED AND SPECIAL WASTE PLAN

The Town of St. Johnsbury has a multiphase program to effectively manage household hazardous wastes (HHW) that are generated in the town. St. Johnsbury contracts with a licensed HHW contractor every two years to hold spring and fall collection events with the Town. Currently APT Environmental Services, Inc. performs these services. The service is available to all St. Johnsbury residents and conditionally exempt small quantity generators (CESQG). The first ten gallons of HHW and all pesticides are collected at no charge. Any HHW over ten gallons is billed to the generator at the actual cost to the Town. The Town encourages the use of less toxic materials by publicizing educational programs offered through the Vermont Department of Environmental Conservation and the Association of Vermont Recyclers. A Conditionally Exempt Small Quantity Generators Workshop was held in St. Johnsbury and similar workshops will be held on a regularly scheduled basis. The workshops will focus on specific sectors such as service stations and printers. Electronic equipment including computers, printers, copiers, cell phones, televisions and many other devices with a cord are collected semi annually in conjunction with the House Hold Hazardous Waste Collection. The Electronics are taken to Good Point Recycling in Middlebury. This program was initiated in 2006 and will continue. At the House Hold Hazardous Waste Collections a Paint Drop and Swap has been reinstated where paints and other house hold items can be collected by other residents for reuse. A group of businesses in St. Johnsbury are participating in collecting universal waste during their hours of operation. The St. Jay True Value Hardware Store is collecting all types of fluorescent light bulbs and rechargeable batteries for the Rechargeable Battery Recycling Corporation. Radio Shack and Sears in St. Johnsbury also accept rechargeable batteries. A mercury thermometer collection is held in conjunction with the House Hold Hazardous Waste Collections and digital thermometers are given as a replacement for the mercury product. Special efforts will be made to collect mercury thermostats during the HHW events. AVR will present Healthy Homes exhibits for outreach to the public in St. Johnsbury. Workshops and site visits to schools in St. Johnsbury will help with hazardous waste reduction. Environmentally preferable products in the custodial area will benefit the environmental health of the school population. Integrated pest management (IPM) will be incorporated in school programs through AVR and the Department of Agriculture. AVR theater presentations focusing on Chlorine Files, Blazing Barrels and Ghosts of Products Past would be good educational tools for elementary school students. Efforts will be made to get student participation in the Youth Environmental Summit. Ongoing outreach through radio programs, news releases, the St. Johnsbury website, sandwich boards and posters continue to identify the various programs available to residents and small quantity generators in St. Johnsbury.

TABLE 9:

COLLECTIONS FOR HHW, CEG, LANDFILL BANNED AND SPECIAL WASTES

Waste	Collection/Drop-off Location	Cost to User
Automotive Waste		
Waste Oil	St. Johnsbury Transfer Station	1.00/gallon
Tires	St. Johnsbury Transfer Station Semiannual tire collection events held at St.J Transfer Station	\$10.00/tire,\$18.00 tire and rim \$2.00/tire with or without rims
Antifreeze	Semiannual Household Hazardous Waste Collection Main Street Municipal Parking Lot, St.J	No charge for first 10 gallons
Lead Acid Batteries	St. Johnsbury Transfer Station	\$1.00/battery
Household Related Wastes		
Pesticides	Semiannual Household Hazardous Waste Collection Main Street Municipal Parking Lot, St.J	No charge
Household Chemicals	Semiannual Household Hazardous Waste Collection Main Street Municipal Parking Lot, St.J	No charge for first 10 gallons
Paint/Related Wastes(No latex Paint)	Semiannual Household Hazardous Waste Collection Main Street Municipal Parking Lot, St.J / Paint Drop and Swap	No charge for first 10 gallons
Nicad and Lead Acid Batteries	Semiannual Household Hazardous Waste Collection Main Street Municipal Parking Lot, St.J	No charge for first 10 gallons/ equivalents
Rechargeable Batteries<1 Kg	St. Jay Hardware, Sears, Radio Shack	No Charge
Waste Electrical Products	Semiannual HHW Collection	\$12.00- Computers, Printers, copiers, \$15.00-TVs
Fluorescent Lights/Ballasts	Semiannual Household Hazardous Waste Collection Main Street Municipal Parking Lot, St.J, St. Jay True Value Hardware Store	No charge for first 10 gallons/ equivalents(1-eight foot bulb=1 gallon)
White Goods	St. Johnsbury Transfer Station	Refrigerator/ Stoves/Washers and Dryers- \$15.00

Other Special Wastes		
Asbestos	Moretown Landfill, Inc., Moretown Semiannual Household Hazardous Waste Collection Main Street Municipal Parking Lot, St.J	\$160.00/ton with prior approval for disposal No charge for first 10 gallon/ equivalents
Medical Waste	Contact local doctor or hospital	
Mercury-added Products	Semiannual Household Hazardous Waste Collection Main Street Municipal Parking Lot, St.J	No charge for first 10 gallon/ equivalents
Dead Animals	St. Johnsbury Transfer Station/On site at Farms for large animals	Dogs and Cats-\$5.00/Large Animals
Non-hazardous Paper Sludge	Moretown Landfill, Inc.	\$76.50/ton with prior approval
Wastewater Treatment Plant Sludge	Moretown Landfill, Inc.	\$76.50/ton with prior approval

HHW/CEG/Special Waste Planning

For each individual waste listed in Table 9 (not just product categories) provide:

- 1. If a collection and management program is not currently available for any of the wastes listed in Table 9, how, where, and when will you provide convenient collections at a reasonable cost;**

Regulated drugs and other medical wastes are not accepted at our HHW events. We recommend that the generator contact their medical provider or the Northeastern Vermont Regional Hospital to have these waste streams properly managed.

- 2. Collection and management program changes and improvements that are planned over the next five years;**

The price of HHW disposal continues to increase. There is a need to try to use the economies of scale to try and optimize the purchasing power of the various Alliances, municipalities and Districts in purchasing the services of HHW contractors. Efforts are being made to try and get state wide household hazardous waste contracts. Electronic waste is being collected and will types of e-waste will expand.

- 3. How will you minimize the amount of HHW, CEG waste, and landfill-banned materials being disposed in solid waste facilities.**

The Town of St. Johnsbury works with the public and CEG's concerning alternatives to hazardous chemicals that result in hazardous waste. St. Johnsbury provides information from the Waste Management Division of the Vermont DEC and the Environmental Assistance

Division concerning non toxic or less toxic alternatives for its residents. CEG Workshops have been held and more will be planned in the future to assist various generators. We have a program to swap Mercury Fever Thermometers for digital thermometers for St. Johnsbury residents. The St. Johnsbury Transfer Station in St. Johnsbury uses 55 gallon drums to collect used crankcase oil. This oil is subsequently used at the St. Johnsbury Transfer Station Garage in St. Johnsbury for their used crankcase oil burner. We also have a twice per year program to collect tires with or without rims for chipping or other civil engineering applications and bulky metals collections in conjunction with the tire collections.

4. Describe the HHW education program for schools and households:

The St. Johnsbury HHW education program includes: Radio programs prior to both events where we talk about the management and disposal of HHW and folks have an opportunity to call and ask questions concerning the HHW program; The Town includes an insert with their tax bill that reminds residents of the upcoming HHW event; The Town also provides posters and press releases for the print media and the radio in St. Johnsbury; The Town Manager writes articles for the local newspapers concerning various aspects of HHW; The Town also contracts with the Association of Vermont Recyclers (AVR) for in class workshop programs and theater productions and programs for Custodial personnel at the Schools to assist with Toxics Use Reduction. The Town Manager also distributes informational brochures and other handouts from the Vermont Department of Environmental Conservation and EPA at community events

5. Describe the education and technical assistance program for Conditionally Exempt Generators (CEGs):

St. Johnsbury sends out post cards to all CEGs explaining upcoming HHW events. We provide outreach to CEGs and other generators in St. Johnsbury by providing information on the Environmental Assistance Division Small Business Compliance Assistance Program, the Vermont Small Business Development Center and programs and resources of the Vermont Department of Environmental Conservation.

SECTION 5. UNIT BASED PRICING PLAN FOR MSW

What is Unit Based Pricing?

Unit-based pricing means the amount people and businesses pay to get rid of trash. It is based on how much they throw away, typically on a per bag, per container, or per ton basis. This is similar to how we pay for electricity. If we use more, we pay more. If we can conserve, we save more. With unit-based pricing, the resident who reduces, reuses and recycles pays less for solid waste disposal than his/her more wasteful neighbor.

To provide financial incentives for waste reduction, reuse, recycling and composting, develop an action plan for implementation of volume or weight based charges (unit based pricing) for municipal solid waste disposal. The action plan should address waste generated by residences and businesses, and collected, transferred or disposed by the public or private sector. The unit based pricing structure should reflect the true cost of waste management and should provide an economic incentive for the generators to minimize waste.

All of the solid waste management facilities located in the Town of St. Johnsbury are privately owned and operated. The Host Town Agreement between St. Johnsbury and Interstate Waste Services, Inc. provides a strong incentive for increasing recycling. Residents of St. Johnsbury are provided with the opportunity to bring all their recyclables to the transfer station at a cost

that will always be less than the cost for disposal. Currently the price for recycling a 30 gallon bag of recyclables is \$0.50. The simplicity of single stream recycling and the reduced cost will help to divert a substantial amount of material out of the waste stream. Curbside collection with Casella includes the weekly recycling of a 30 gallon bag of recyclables with the monthly cost of MSW disposal for all their curbside customers. Guidelines, handouts and news releases on recycling are accomplished on a regular basis (See Table 6).

St. Johnsbury is market driven. St. Johnsbury provides assistance to the public and businesses by publicizing the economic and environmental benefits of recycling. St. Johnsbury encourages waste reduction with special reduced rate collections for tires, white goods and propane tanks in conjunction with household hazardous waste collection events. The Town of St. Johnsbury, St. Johnsbury Academy and the St. Johnsbury School solicited competitive proposals for the collection and disposal of solid waste and the comingled collection of recyclables. Monthly fees for weekly collection for commercial MSW at Casella and Interstate Waste Services, Inc. range from ~\$110-\$116.70/2 yard dumpsters; \$160.00- \$189.70/4 yard dumpster; ~\$285-\$263.20/6 yard dumpster. Both of these haulers collect recyclables in St. Johnsbury at \$45 to \$50.00 per month for a two yard dumpster from Interstate Waste Services, Inc. or Casella. While these rates are not unit based, they are now collecting recyclables as a single stream activity. The Town of St. Johnsbury will work with the haulers to publicize the new single stream program that is available both to residents at curbside and at the St. Johnsbury Transfer Station and with commercial curbside customers. The hours at the St. Johnsbury Transfer Station have been expanded to Monday through Thursday from 7 am to 4 pm and Friday and Saturday from 7 am to 12 noon. The (RWRC) will in conjunction with the Town over the coming years develop and implement plans to divert useful items from disposal. To encourage reuse and recycling of products from businesses within St. Johnsbury, the Town publicizes the Vermont Business Materials Exchange, email: vbmx.org, **Phone # 1:** (802) 254-3636 **Phone # 2:** (800) 895-1930 **Fax #:** (802) 254-5870 web site: <http://vbmx.org>.

St. Johnsbury is looking at the St. Johnsbury Transfer Station as a site for residents to bring yard waste with off site composting. St. Johnsbury is selling compost bins to encourage waste reduction and beneficial reuse of the composted material and will participate in 2008 in the truck load compost bin sales. The RWRC is actively working on a Town wide composting initiative. They are working with the schools, farmers market, farms, garden club, residents, AVR and the Town to accomplish this program.

SECTION 6. BUY RECYCLED PLAN

Describe how you will increase the use of recycled products, composted material and used products in your municipality or member towns.

St. Johnsbury will make our town offices aware of any opportunities to obtain recycled/composted or used products for their public works and office functions. Information available through Vermont State Purchasing Contracts and the Northeast Resource Recovery Association will be provided to the town offices. The awareness of the Vermont Business Materials Exchange is another resource used to encourage the increased use of these materials.

Describe how you will educate residents and businesses on opportunities for them to buy recycled.

The Town will educate residents and businesses of opportunities to buy recycled through handouts and articles in the local print media and radio and cable T.V. spots.

List the recycled/used/composted products currently purchased and/or used by the town(s), district, or member towns.

The use of various office supplies including copier paper, legal pads, file folders, envelopes, and printer/copier cartridges are utilized by some municipal offices and schools in the town. Paper towels made with recycled content are also used. St. Johnsbury has purchased some recycling bins made with recycled content. Some compost bins and Green Cones made with recycled plastic have been purchased.

List any additional recycled/used/composted products which you plan to purchase in the future.

More recycling bins and composting bins. Also finished compost will be used within the Town.

Who is the individual responsible for evaluating purchases for opportunities to buy recycled?

All department managers make their own purchasing decisions. The Town Manager reviews their decisions as needed and has final responsibility.

SECTION 7. ILLEGAL DISPOSAL PLAN

St. Johnsbury's program for dealing with illegal disposal has depended on the use of the Enforcement Officers of the Vermont Agency of Natural Resources utilizing their authority under State Litter Laws (Title 24 Section 2201) and Trash Burning Laws. At the local level the Fire Chief and Health Officer respond to hazardous conditions (fire or health) from the burning of trash or the dumping of various types of waste on properties. There is a Litter Prohibition Ordinance in St. Johnsbury (See Attachment). The amendment of 24 V.S.A. 2201 provides enforcement authority already included in the Litter Prohibition Ordinance but expands the prohibition to illegal burning. The Fire Chief or Health Officer would provide response to complaints from illegal dumping or burning.

A task force of residents in St. Johnsbury and surrounding communities recently held a series of meetings on how to best handle the illegal disposal of junk cars and trash. Funding to deal with the proper disposal of materials found during an enforcement action and to assist the law enforcement community in providing services in this area are still issues.

The educational program for illegal burning will focus on AVR's Blazing Barrels Theater Program and the ANR's Don't Burn Vermont Campaign. Posters and exhibits will be made available at events like the Farmers Market and other community events.

For each town covered by your SWIP, evaluate the convenience of proper disposal of various wastes generated in that town:

**TABLE 10
EVALUATING CONVENIENCE**

TOWN AND TYPE OF WASTE	FURTHEST HAUL DISTANCE	DAYS AND HOURS OF OPERATION	COST TO USER
St. Johnsbury			
RESIDENTIAL MSW	6.5 MILES	7-4 Mon.-Thurs. 7-12 Fri.-Sat.	\$3.00/30GAL. BAG
CONSTRUCTION/DEMOLITION DEBRIS	6.5 MILES	7-4 Mon.-Thurs. 7-12 Fri.-Sat.	\$107/Ton
TIRES	6.5 MILES	7-4 Mon.-Thurs. 7-12 Fri.-Sat.	\$2.50 With rim-\$5.00
WHITE GOODS	6.5 MILES	7-4 Mon.-Thurs. 7-12 Fri.-Sat.	\$15-25.00
RECYCLABLES	6.5 MILES	7-3:30 Mon. & Wed. 7-11:30 Fri.-Sat.	\$1.50/30 GAL BAG

Describe your strategy to discourage illegal disposal by making legal disposal more convenient and less expensive.

The Town of St. Johnsbury holds special events twice per year to encourage the proper management of various materials. There are spring and fall car and pick-up truck tire collections and white goods and other metals collections held at the St. Johnsbury Transfer Station. The charge is \$2.00/tire with or without rims and there is no charge for the metal that is collected.

SECTION 8. SOLID WASTE FACILITIES SITING CRITERIA

Any facilities proposed for the Town of St. Johnsbury would need to be in conformance with municipal planning and zoning requirements.

SECTION 9. SPECIFY FACILITIES INCLUDED IN THE PLAN

Note: Under state law (10 V.S.A. Section 6605(c)), ANR shall not issue a certification or recertification for a solid waste facility (except for a sludge or septage land application project) unless it is included in the district or municipal solid waste implementation plan.

Use the table below to list what existing solid waste facilities are included in your Solid Waste Implementation Plan.

**TABLE 11
FACILITIES INCLUDED IN THE PLAN**

FACILITY NAME	OWNER/OPERATOR	LOCATION (road and town)	TYPE
St. Johnsbury Transfer Station	Interstate Waste Systems, Inc.	High Street, St. Johnsbury	Transfer Station
St. Johnsbury Wastewater Treatment Plant	Town of St. Johnsbury	Off Bay Street, St. Johnsbury	Wastewater Treatment Plant
Glenn Olcott Farm	Earth Tech for the Town of St. Johnsbury	Olcott Drive, St. Johnsbury	Biosolids Land Application Site
Fairbanks Scale	Earth Tech for Fairbanks Scale	Rt. 2, St. Johnsbury	Industrial Wastewater Pretreatment Plant

B. Describe how proposed facilities will be reviewed for inclusion in the plan. Explain the process to be used to determine if solid waste facilities proposed to be located in the municipality or district will be “included in” the solid waste implementation plan.

In order to include a proposed solid waste facility in this Solid Waste Implementation Plan (SWIP) the Town of St. Johnsbury will revise the SWIP in the following manner: The developer of the proposed solid waste facility formally requests the municipality to include the facility in the SWIP; The request is reviewed by Town staff, Town commissions and /or the selectboard. This review could include determining if the proposed facility conforms with municipal planning and zoning requirements; Provide opportunities for public participation; The request is then approved or denied by the selectboard; and if the request is approved, notify the Waste Management Division by letter that the SWIP has been revised to include the proposed solid waste facility.

SECTION 10. BUDGET AND TIMELINE

Go through each section of your SWIP and identify all the existing or proposed actions that you have described. In the table below, list all the action steps that you have identified in your SWIP, and for each action step, provide a timeline and budget in the table below. The table will serve as a summary list and to help with budgeting.

The activities that are identified in the SWIP are currently being addressed by St. Johnsbury. All of the solid waste facilities located in St. Johnsbury are privately owned and operated. Budgeting decisions for these facilities is done independently of the Town of St. Johnsbury. Sludge and septage management are administered and financed outside of the SWIP.

In 2005 the Town of St. Johnsbury budgeted \$28,000 to fund various elements of the solid waste program. Besides property taxes, funds came from the household hazardous waste grant, the pesticide disposal funds and Host Town Fees from Interstate Waste Services, Inc. A total of \$27,657 was expended for these programs. The major programs are: Household Hazardous Waste, Recycling/Green Up Day, Solid Waste Planning, Composting Initiatives and Educational programs. Administrative support for Household Hazardous Waste activities is provided by the Moretown Landfill, Inc.

A copy of the budget sheet is included as an attachment in Section 13.

SECTION 11. PUBLIC PARTICIPATION PLAN

Describe the process used to ensure early and sustained public participation in the development and implementation of the plan. Local citizens, businesses, organizations, institutions, and solid waste management facility owners should be notified of the opportunities to participate in the public process for plan development and implementation. In addition to any public meetings which are scheduled for plan development, at least two public hearings are required prior to plan adoption. ANR recommends these be held after the draft plan receives a pre-approval from ANR, so that the final draft can be reviewed and discussed by interested parties.

In 2001 over 21% of the registered voters in St. Johnsbury participated in a survey dealing with recycling issues that was developed by the Recycling Committee and was used to gain a snapshot of current recycling practices and what the respondents wanted to do for the future in recycling. There has been an ongoing presence of the Recycling Committee in identifying initiatives that St. Johnsbury should achieve.

This Committee is now the Recycling and Waste Reduction Committee (RWRC). It has been meeting formally on a monthly basis since November, 2006. The RWRC is reviewing various waste management activities in St. Johnsbury and has decided to focus on composting activities as the first major initiative in waste reduction. The RWRC will be encouraged to provide input and be an ongoing sounding board for issues associated with the draft Solid Waste Implementation Plan. Opportunities for public participation in the ongoing development and implementation of the SWIP involve future participation by the public and selectboard at Selectmen's Meetings. The May 22, 2006 St. Johnsbury Selectboard Meeting included a presentation on the Solid Waste Implementation Plan. Various programs mentioned in the SWIP are also discussed on local radio call in shows and the print media. Following the approval by ANR of the Draft Plan, copies will be available at the Town Clerk's Office for review prior to the duly noticed public hearings. Copies of the plan will also be available at the Public Library in St. Johnsbury.

SECTION 12. CONFORMANCE WITH OTHER PLANS

Your SWIP must be in conformance with any municipal and regional plans adopted in accordance with 24 VSA Chapter 117. Demonstration may be in the form of a letter from the applicable regional planning commission and the municipal planning board which states that they have reviewed the SWIP and explains how the SWIP conforms with the regional and municipal plan, copies of pertinent sections of the regional or municipal plan, or other documentation that demonstrates conformance.

Relevant sections of the Town Plan for St. Johnsbury and the Regional Plan for the Northeast Kingdom are included in Section 13. Letters from the Northeastern Vermont Development Association and the St. Johnsbury Planning Commission are also found in Section 13.

SECTION 13. ATTACHMENTS

Copies of appropriate sections of:

Town of St. Johnsbury Plan, 2001

Regional Plan for the Northeast Kingdom, Re-adopted September 28, 2000

Letter from Northeastern Vermont Development Association, and

Letter from the St. Johnsbury Planning Commission

St. Johnsbury Littering Prohibition Ordinance

2005 Solid Waste Budget