

Agenda

Recycling Committee

Monday, October 24, 2016 at 4 pm.

1. Minutes October 10,, 2016

2. Adoption of the agenda
3. Review Transfer Station renovation Plans and costs - Chip Reeves
4. Review Single Sort Recycling system and cost estimates- Chip Reeves
5. Schedule next meeting

Adjourn

Task Force on Recycling

Minutes

October 10, 2016 at 4 pm.

Attending: Ted Koffman, Arnold Lundquist, Robert Rechholtz, Clark Stivers, Mike Handwerk. Staff- Chip Reeves, Cornell Knight. Gary Friedmann, Lisa Bjerke.

Lis Bjerke did a powerpoint presentation on Materials Management for Bar Harbor and ways to improve participation in recycling. She quoted Mount Desert Island recycling is 13% and the state average is 34%. She explained that Maine law requires all municipalities to be at least 50% but most are nowhere near the goal.

Chip distributed historical information of recycled material volumes and revenue. Also the last 25 years of PERC deliveries.

Chip also reviewed the Transfer Station plan and traffic flow with 2 drive in bays and a hopper in the middle. Commercial haulers will have a separate bay to back up to the hopper. Trailers will be filled using a hydraulic ram system in the lower level. By having the trailers enclosed in a building there will be less odors, less leachate and no rain water that adds to the weight of the load. It will be a safer and more convenient operation for the customers and since the msw will be better compacted the trailers will be heavier and should reduce the number of trips annually. The committee was concerned that the new proposal represents current methodologies

The committee discussed charging for commercial waste. Since 2/3 of the waste at the transfer station is commercial with little recycling it represents a huge issue. Everyone acknowledges that changing our process is a difficult subject. Mr. Knight said the By Laws would need to be amended by the Town Council to consider that fee.

Mike Handwerk said that Universal Waste Disposal is an opportunity to increase rates of recycling.

There was discussion on how to get more recycling rates up without a PAYT program. Policing the hopper for better participation was mentioned. Single Sort recycling might be a method to improve rates. The Recycling Building project could be much smaller with single sort because there would be no baling but there would be less revenue and some cost. Less labor costs are likely. Chip will work on costs and how a single sort program would work.

The next meeting will be Monday October 24th at 4 pm.



THE TOWN OF BAR HARBOR

TRANSFER FACILITY

IMPROVEMENTS

Draft Most Probable Cost Breakdown

October 18, 2016

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
TRANSFER STATION IMPROVEMENTS				\$ 956,800.00
Demo Existing Transfer Station	1	LS	\$ 15,000.00	\$ 15,000.00
New Concrete Foundation	340	LF	\$ 350.00	\$ 119,000.00
Compactor Hopper	1	EA	\$ 5,000.00	\$ 5,000.00
New Pre-Engineered Building Shell	4320	SF	\$ 100.00	\$ 432,000.00
New First Floor Framing System	3360	SF	\$ 20.00	\$ 67,200.00
New Concrete Slab	7680	SF	\$ 8.00	\$ 61,440.00
Hydraulic Ram Compactor	1	EA	\$ 60,000.00	\$ 60,000.00
New Overhead Doors	8	EA	\$ 8,000.00	\$ 64,000.00
New Trench Drain System	4	EA	\$ 2,500.00	\$ 10,000.00
New Hose Bib	4	EA	\$ 250.00	\$ 1,000.00
New Lighting and Power	7680	SF	\$ 12.00	\$ 92,160.00
Odor Control Biofilter or Mist	1	EA	\$ 30,000.00	\$ 30,000.00
SITE IMPROVEMENTS				\$ 358,010.00
Site Preparation, Temporary Erosion Control	1	Acre	\$ 2,000.00	\$ 2,000.00
Clearing	0.12	Acre	\$ 2,500.00	\$ 300.00
Common Excavation	3,751	CY	\$ 10.00	\$ 37,510.00
Common Borrow	450	CY	\$ 15.00	\$ 6,750.00
Geotextile	3,160	SY	\$ 2.00	\$ 6,320.00
18" Gravel Subbase	1,590	CY	\$ 25.00	\$ 39,750.00
6" Gravel Base	530	CY	\$ 28.00	\$ 14,840.00
4" Pavement	3,160	SY	\$ 23.00	\$ 72,680.00
2" Water Line	110	LF	\$ 50.00	\$ 5,500.00
6" Sewer Line	105	LF	\$ 50.00	\$ 5,250.00
4' Catchbasin	2	EA	\$ 4,000.00	\$ 8,000.00
12" Stormdrain	80	LF	\$ 60.00	\$ 4,800.00
Site Retaining Wall	600	SF	\$ 50.00	\$ 30,000.00
Culvert Extension	50	LF	\$ 60.00	\$ 3,000.00
Striping and Marking	1	LS	\$ 1,000.00	\$ 1,000.00
Loam, Seed and Mulch	6	UNIT	\$ 35.00	\$ 210.00
Decommission Overhead Utilities	1	LS	\$ 5,000.00	\$ 5,000.00
Pad Mounted Transformer: 150 kVA , 480 Volt, 3 Phase	1	EA	\$ 14,500.00	\$ 14,500.00
Concrete Pad: 10' x 10'	100	SF	\$ 6.00	\$ 600.00
Underground Electrical Utilities	500	LF	\$ 200.00	\$ 100,000.00
CONSTRUCTION SUBTOTAL				\$ 1,314,810.00
GENERAL CONDITIONS				\$ 591,664.50
General Conditions	5%	%	\$1,314,810.00	\$ 65,740.50
Contingency	20%	%	\$1,314,810.00	\$ 262,962.00
Engineering/Permitting	10%	%	\$1,314,810.00	\$ 131,481.00
Construction Quality Assurance	10%	%	\$1,314,810.00	\$ 131,481.00
PROJECT TOTAL				\$ 1,906,474.50

Memo

To: Cornell Knight, Town Manager
From: Chip Reeves, Public Works Director
Date: October 20, 2016
Re: Single Sort Recycling

Please find attached two charts showing annualized costs for our existing source separated recycling system and estimated annual costs for a single sort recycling system.

Source Separated

On our existing system we again have used the assumption that two thirds of our costs at the transfer station are associated with recycling. This is consistent with the way we have allocated costs in the past when analyzing recycling or Municipal Solid Waste (MSW) programs. For this analysis two thirds of FY 17 budgeted expenses were included for labor, supplies, utilities and maintenance. Bailer and forklift costs were pulled right from the CIP budget appropriations for replacement of that equipment.

Single Sort

In developing estimated annual costs for a single sort recycling system we've assumed we would purchase a roll off container that would attach to a compactor unit (See attached pictures). Users would be allowed recycle their existing recycle goods in one container. I've also assumed a 15% increase over the actual recycling tonnage for CY 16. You will also note that no revenues were included. Unit prices for recycled products are down overall so I have not include revenues here to be conservative.

We do need to further investigate costs for handling single sort recycling that comes in commercially. It becomes a material handling question which can be answered easily as operations become more defined.

Conclusions

It appears at this point single sort recycling has significant potential to save the Town money, mainly in labor. I would recommend investigating implementation of single sort further as more savings may be realized in the development of the master plan specifically on the recycling side.

Call with questions.

Single Sort/Source Separated Recycling Annualized Costs Comparison
 19-Oct-16

Single Sort	Quantity	Unit	Cost	Amount
Tip Fee	620	Tons	\$ 35	\$ 21,700
Hauling	620	Tons	\$ 50	\$ 31,000
Recycling Bin/Comp	1	Each	\$ 50,000	\$ 2,500
Installation	1	LS	\$ 2,500	\$ 125
Electric	1	LS	\$ 5,000	\$ 250
Total				\$ 55,575

Source Separated (Existing)

Labor	\$ 95,882
Benefits	\$ 35,476
Bailers	\$ 1,934
Forklift	\$ 3,031
Supplies	\$ 9,828
Utilities	\$ 11,946
Maintenance	\$ 5,596
Revenues	\$ (64,423)
Total	\$ 99,270

SPENCER TRANSFER STATION

The best value in Town for your waste disposal and recycling needs.

 *Single-Stream Recycling* 
*Compactors Now Up & Running**

(*This project is funded in part by a Grant from the MassDEP)

ALL RECYCLABLES INTO ONE

COMPACTOR INCLUDING:

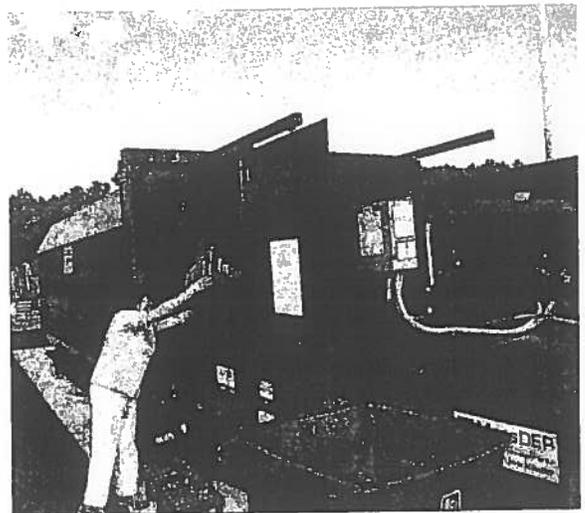
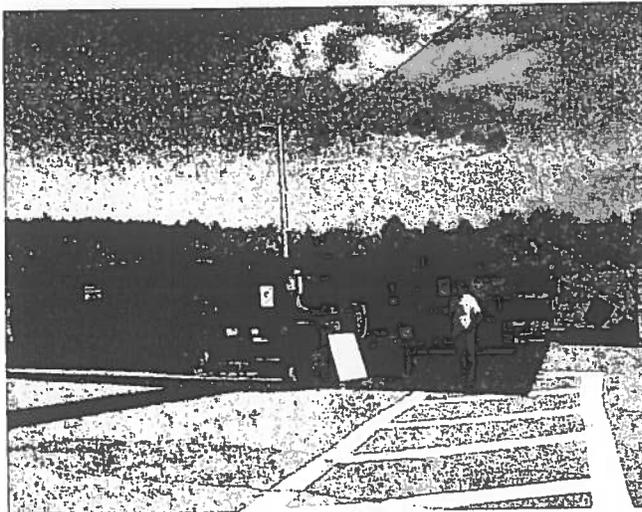
MIXED PAPER & CARDBOARD

PLASTIC CONTAINERS #1 THRU #7

METAL FOOD CONTAINERS

GLASS (CLEAR, BROWN & GREEN)

ALUMINUM CANS



Task Force on Recycling

The mission of the Task Force on Recycling is to find ways to improve the recycling rate for residents and businesses and lower the solid waste disposal costs for the town.

Appointment

The Town Council shall appoint Bar Harbor residents to the Task Force.

The Task Force shall consist of 7 members with one member being a Town Councilor.

The term of each member shall be for three years, except the initial appointments which shall be two appointments for 1 year; two appointments for two years and three appointments for three years. All newly designated task force members are to be sworn in by the Town Clerk.

The Task Force shall elect a Chair, Vice-Chair and Secretary at the first regular meeting of each year for a one year term. The Chair shall call a meeting at least once a month unless there are no agenda items. The secretary shall take minutes at each meeting and send approved minutes to the Town Clerk. A quorum is 4 members of the Task Force. Meeting agendas shall be posted on the bulletin board in the Municipal Building lobby and on the town's website.

Compensation

There shall be no compensation provided for the members of the Task Force.

Duties and Responsibilities

The Task Force will:

- Identify ways to improve recycling by residents and businesses.
- Explore ways to compost food waste and other organics.
- Review the master plan for renovation of the Transfer Station and Recycling Center and make recommendations to the Town Council.
- consider a Pay-as-You-Throw program
- consider fees for commercial waste delivered to the transfer station

Amendment

These bylaws may be amended only by action of the Town Council.

Amended Town Council vote 10/18/2016