



“Partnering to make recycling strong through economic and environmentally sound solutions”

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April 11, 2016

**To: Richard Lee
New London, NH**

**From: Michael Durfor, NRRA Executive Director
Bonnie Bethune, NRRA Member Services Manager
George Murray, NRRA Board of Trustees V.P.**

Re: NEW LONDON, NH - NRRA SITE REVIEW

Northeast Resource Recovery Association (NRRA) was asked to conduct a Site Review of the current Recycling Facility/ Transfer Facility and its operations, and the 3 other locations throughout Town that are being used to manage MSW, Recyclables, Glass, Scrap Metal and Brush. This site visit was conducted on 3/04/16.

The four sites are

- 1) Recycling Facility/Transfer Station
- 2) Scrap Metal Pile Area
- 3) Highway Dept.
- 4) Shepherd Pit
- 5) Site Visit Recommendations

In Attendance were:

New London:

Richard Lee
Bob Brown
Jim DeVere
John Early

NRRA:

Mike Durfor
Bonnie Bethune
George Murray

#1 The Recycling Facility/Transfer Station - “Location, location, location....”:

General observations:

Site is a great location for those residents on the I-89 side of town.

Site is very unsafe given the current pedestrian and vehicular flow.

Site has limited storage and handling areas making it very inefficient.

Site has limited loading area reducing the ability to live load marketable material.

Traffic Flow- Pedestrian Safety

Traffic is obviously a problem at the current site with the limited space for vehicles to access the site and the small area where people can access the waste and recycling drop off areas.

The attached pictures and video link below demonstrate the current obvious liability incurred whenever the facility is open to the public.

Please note the ground was bare of snow which would complicate the traffic flow even more in winter months.

This safety issue should be given the highest priority for any future site layout. It is our observation that an accident is most certainly going to occur at some point.

Video available in DropBox.com

Handling Procedures and Storage

Mixed Paper in bags, OCC, Plastics, Aluminum Cans, Redeemables, and Steel Cans are handled at this site.

The Town is limited in using vertical balers for their materials and should consider a small horizontal baler that can be fed overhead using the Bobcat. This baler would make mill size bales that have the weight and dimensions to meet the needs of the industry.

Lebanon just replaced their original horizontal baler with a larger one. However, the old one was still producing mill size bales after ten years of usage.

The paper could then be baled instead of piling bags that have the issue of falling apart and present a challenge at the end-market. This would require additional storage and handling space than is currently available.

Immediate Short Term RECOMMENDATIONS for the Transfer Station Site:

Plastics Recycling – Changing to 1-7 plastics may help with the labor required to store and bale the HDPE and PETE separately and may also help to increase your overall recycling rate.

In 2015, New London marketed 29,680 lbs. of plastics which were separated in to two categories.

#2 HDPE “Z” bales with mixed color and natural (detergent bottles and milk jugs combined) yielded \$3,127 and #1 PETE (water and soda bottles) yielded \$378 for an annual plastics revenue of \$3,505.

Net Revenue in 2015 was \$.12/lb.

If the same tonnage had been marketed as #1-7, Net Revenue would have been \$.0225/lb. or \$668.

Disadvantage: - A loss of \$2,837 in revenue.

Advantages:

- Time & labor savings by not storing and baling 2 separate commodities
- Can still collect separated from residents to be able to ebb and flow with markets
- Will capture the 3-7's that are currently thrown away (collect from residents in a third bin)

Steel Can Recycling - There is the opportunity to do a “live load” of steel cans once the bunker at the HD is full. Current Haul Fee is \$235 with truck coming thru NRRA from Schnitzer in Concord. Current Revenue per gross ton for steel cans is \$80/gross ton.

Storage Containers are available thru NRRA/Page Street Leasing w/ grants available thru NHTB– Trailers on or off landing gear, overseas shipping containers, etc.

Single Stream Recycling may make the operations at the present site more manageable in the short term, especially with the town using 75 yard trailers but is NOT recommended in the long term.

It may decrease labor to offset the cost of the single stream program (500 tons x \$150 per ton including transportation) = \$75,000).

#2 The Scrap Metal Pile Area:

This site has a lot of miscellaneous fill throughout that would create problems for constructing a facility to handle the materials brought to the site.

The traffic may be an issue with the pond access across the road.

The wetlands abutting the current usable space restricts any future expansion and would result in too small an area to be considered for a consolidated site.

#3 The Highway Dept:

The Highway Dept. location would make operations more efficient having the facility at the main administrative area, however, traffic may be an issue with conflicting usage with the highway crew.

As with the Scrap Pile location, there simply is not enough space to accommodate a safe traffic flow for residents, sufficient handling, storage, and shipping areas to move the material through this facility.

#4 The Shepherd Pit:

The Pit shines as far as the space available and the material on-site that can be used to construct an efficient facility and has ample storage area for the scrap, wood, glass, etc. with all material handled at one location.

The area appears to be well suited for constructing a new well-designed, user-friendly facility.

This site has the added advantage of being able to allow construction of the new facility to proceed with the least disruption to existing operations.

A new site and facility can “borrow” tried and true ideas and innovations from existing facilities including the use of a bunker system that would help with the overall operations and incur labor savings.

(Please see Lee’s silo sides – tall, moveable jersey barriers)

Even though this area is located on the “other” side of town, we are convinced it is the best solution for a new facility that can handle all of the material.

#5 Specific locations we recommend that you visit:

New London – Pop. 4,397 college community with seasonal influx

Sunapee, NH/Springfield - Pop. 3,365 + with seasonal influx (nearby)

89 Avery Rd.

Sunapee NH 03782

(603) 763-4614

Contact: Scott Hazelton / Earl Towle

Mon., Thurs., Fri., Sat. 8am – 4:15 pm & Sun. 8 am – 11:45 am

Lee NH - Pop. 4,330 (similar size processing)

11 Recycling Center Rd.

Lee, NH 03824

(603) 659-2239

Contact: Roger Rice

Tues., Thurs. 8am – 6pm & Sat. 8am – 5pm

BCEP - Pop. 16,000 (district - a little more processing)

115 Laconia Rd.

Pittsfield, NH 03263

(603) 435-6237

Contact: Earl Weir/Lisa Stevens

Mon., Wed., Thurs., Fri., Sat. 8am – 4pm

Lebanon, NH – Pop. 30,000 (regional site - larger)

Rt. 12A/370 Plainfield Rd.

West Lebanon, NH 03784

(603) 298-6486

Contact: Marc Morgan

Mon. – Fri. 8:30am – 5pm & Sat. 8:30 am – 2pm

Lebanon is a good site to visit but consider how the interior could be different by using the Jersey Barriers (see Lee) instead of cast concrete.

Also look at the baler that is two years old.

Derry, NH Pop. 33,000 Brand new – “the Taj Mahal”

43 Transfer Lane

Derry, NH 03038

(603) 432-4650

Contact: Joanie Hamel

Tues., Wed, Thurs, Fri. & Sat. 7:30 – 3:30 (Wed. Summers to 6:30 pm)

In Summary:

The waste stream/recycling process is too spread out among the various sites in Town and creates too much handling of commodities, loss of control at the various sites, and increased labor costs due to the many sites that are being used.

- The current location has limitations that cause the multiple sites being used for the Scrap Metal, Wood/Brush and Glass, as well as the need to transport materials from this site to others and the necessary off-site storage of baled materials.
- It is extremely unsafe for pedestrians and motorists given its existing flow.
- It lacks sufficient storage and handling areas to properly prepare recyclables for market.
- Short term and intermediate steps will only prolong the eventual decision to design and construct a facility necessary to provide a long term solution for proper and safe materials management at one site.

We recommend the town of New London research and build an appropriately sized facility to handle current and future volumes of material at the Shepherd Pit.

Thank you for allowing NRRA to review your sites and make our recommendations.