

Hartland Secure Landfill

Public Meeting

Meeting Outline

- Introductions
- Why are we here?
- Progress since Resolution
- Landfill Capacity Plan
 - Phase IV Development Design
 - Compaction Assessment
- Landfill Closure Plan
- Where do we go from here?

Introductions

- Town Selectmen
 - Judy Alton
 - Mark Brooks
 - John Hikel
- Town Manager
 - Chris Littlefield
- Town Attorneys
 - Andrew Hamilton
 - Dan Pittman
- Town Consultants
 - Amanda Wade, TRC

Why are we here?

- In June of 2019 the public was provided with two options for future action at the landfill:
 - Option A: Close the landfill immediately
 - Rejected by public vote (*42 Yes, 108 No*)
 - Option B: Move forward with construction of additional capacity at the landfill to help fund future closure
 - Approved by public vote (*128 Yes, 25 No*)

Option A

- A vote to close the current cells, without construction of future capacity, would cost approximately \$3,469,809, immediately, and **GUARANTEES TAXATION.**

Option B

- A vote to move forward with construction of the additional capacity will cost \$3,533,000. This includes:
 - Construction costs,
 - The purchase of a slow speed shredder, to optimize capacity usage, and
 - A new set of truck scales.
- Construction of the liner system will provide state-of-the-art environmental protections and sufficient capacity to repay construction costs as well as fund operations, closure, and post-closure costs.
- Paid for 100% through landfill user fees

Why are we here?

- We are here to present information regarding the future of development and operations at the landfill as directed in the May 20, 2019 Board Resolution To Optimize the Solid Waste Management Plan to Fund Landfill Closure by completing the following:
 - Final Design for Development of Phase IV
 - Plan for the use of the Town's landfill capacity to serve the needs of its residents
 - Plan for closure of the landfill
 - Funding plan for construction of additional capacity

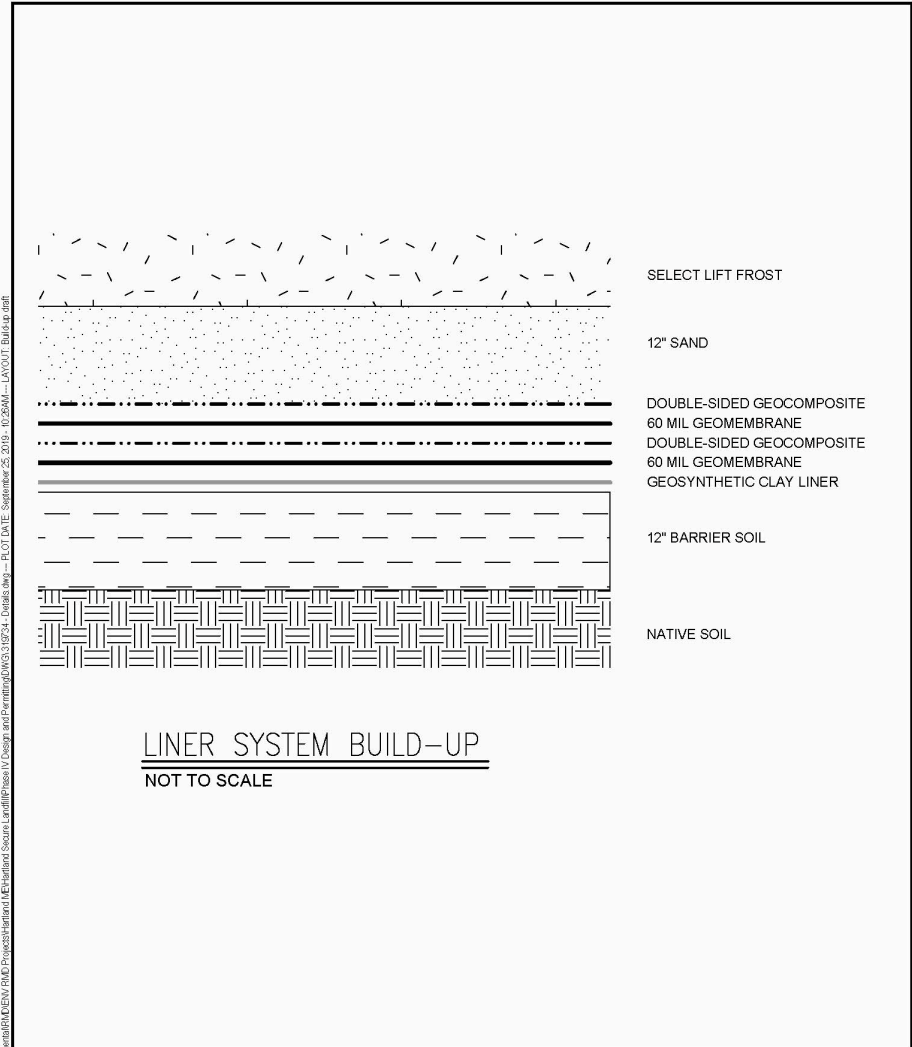
Historic and Potential Impacts

- Historic Groundwater Contamination
 - Installation of Public Water on Rt 23 (mid 1980's)
- Historic Notices of Violation
 - Lack of Town Cooperation with DEP
- Historic Waste Instability
- Ongoing Traffic
- Potential Noise
- Potential Dust
- Potential Odors

Progress since Resolution

- Received final relicense, for the secure landfill, from Maine DEP
- Completed assessment of groundwater flow directions under the landfill
- Installed 4 new Groundwater Monitoring Wells in support of the Phase IV development
- Prepared Engineered Design for Phase IV
- Performed a Compaction Analysis while utilizing an on-site grinder
- Performed an assessment of the landfill capacity utilization
- Scheduled odor monitoring training for Town employees/responders (Feb 23, 2021)

Liner Design



LINER SYSTEM BUILD-UP
NOT TO SCALE

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 C:\Users\jmm\OneDrive\Documents\319734 - Details.dwg - PLOT DATE: September 25, 2019 - 10:25AM - LAYOUT: Build-up.dwg



PROJECT:	HARTLAND SECURE SLUDGE LANDFILL PHASE IV
TITLE:	BUILD-UP CROSS SECTION

DRAWN BY:	JMM
CHECKED BY:	###
APPROVED BY:	###
DATE:	SEPTEMBER 2019
PROJ. NO.:	319734.0000.0000
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Closure Plan Procedures

- The existing landfill areas will meet permitted grades in 2021. (Requiring immediate closure without Phase IV construction.)
- Phase IV provides the Town with approximately 20 years of additional capacity.
- The Town will submit a formal application for closure, with closure design, to the Maine DEP, one year prior to reaching the final build-out.
- The closure design must meet the requirements of the State of Maine Solid Waste Management Regulations in place at the time of the closure.

Closure Application Details

- The Closure Design will include the cover system components, including soils and geosynthetics; gas management design; stormwater modelling and design; and any additional requirements in place at the time.
- The Closure Application will also include the Post-Closure monitoring and maintenance plan that will outline the Town's continued responsibilities at the site after closure.

Post-Closure Requirements

- The Town will be required to perform environmental monitoring (groundwater, surface water, landfill gas, and air) for a minimum of 30 years following closure.
- The Town will be required to mow the closed landfill at least once per year.
- The Town will be required to perform an inspection of the landfill cover system on an annual basis. (Inspection must be conducted by a qualified individual)
- The Town must submit annual reports to the DEP in April of each year.

Closure and Post-Closure Costs

- The estimated cost for closure of the currently constructed landfill is \$1.5 million. This includes design, materials, and construction oversight for a 3.8 acre cover system. (Would need to occur immediately)
- The estimated cost for closure of the landfill at the completion of Phase IV (in approx. 20 years) is \$3.5 million. This includes design, materials, and construction oversight for an 8.3 acre cover system.
- The estimated Post Closure cost is \$1.7 million. This includes the required monitoring, maintenance, and leachate treatment costs. (Will initiate at closure)

Where do we go from here?

Prepare a Plan to Optimize the Phase IV landfill capacity in order to fund the construction, operation, and closure costs of the landfill while minimizing the potential for impacts from the Facility.

Landfill Planning Assumptions

- 1. Annual Landfill Operating Budget
(\$1,130,360)
- 2. Construct 5.3 Acres of Landfill Liner
(\$2,807,000)
- 3. 328,000 Cubic Yards of Capacity to
Manage (PHASE IV)

Assumptions Continued

- 4. Managed Capacity for +/- 20 Years
- 5. Will Build Reserves to Pay for Closure
(\$3,520,000)
- 6. Will Build Reserves to Pay for Post-Closure Responsibilities
(\$1,728,809)

Assumptions Continued

- 7. Includes Repayment of Borrowed \$3,532,000 +/- to Purchase:
 - State-of-the Art liner System (\$2,807,000)
 - Slow Speed Shredder (\$600,000)
 - Set of Truck Scales (\$125,000)
- 8. \$310,000 HPCF Annual Budget Shortfall, Paid for Through Leachate Treatment Costs
- 9. NO ADDITIONAL TAXATION

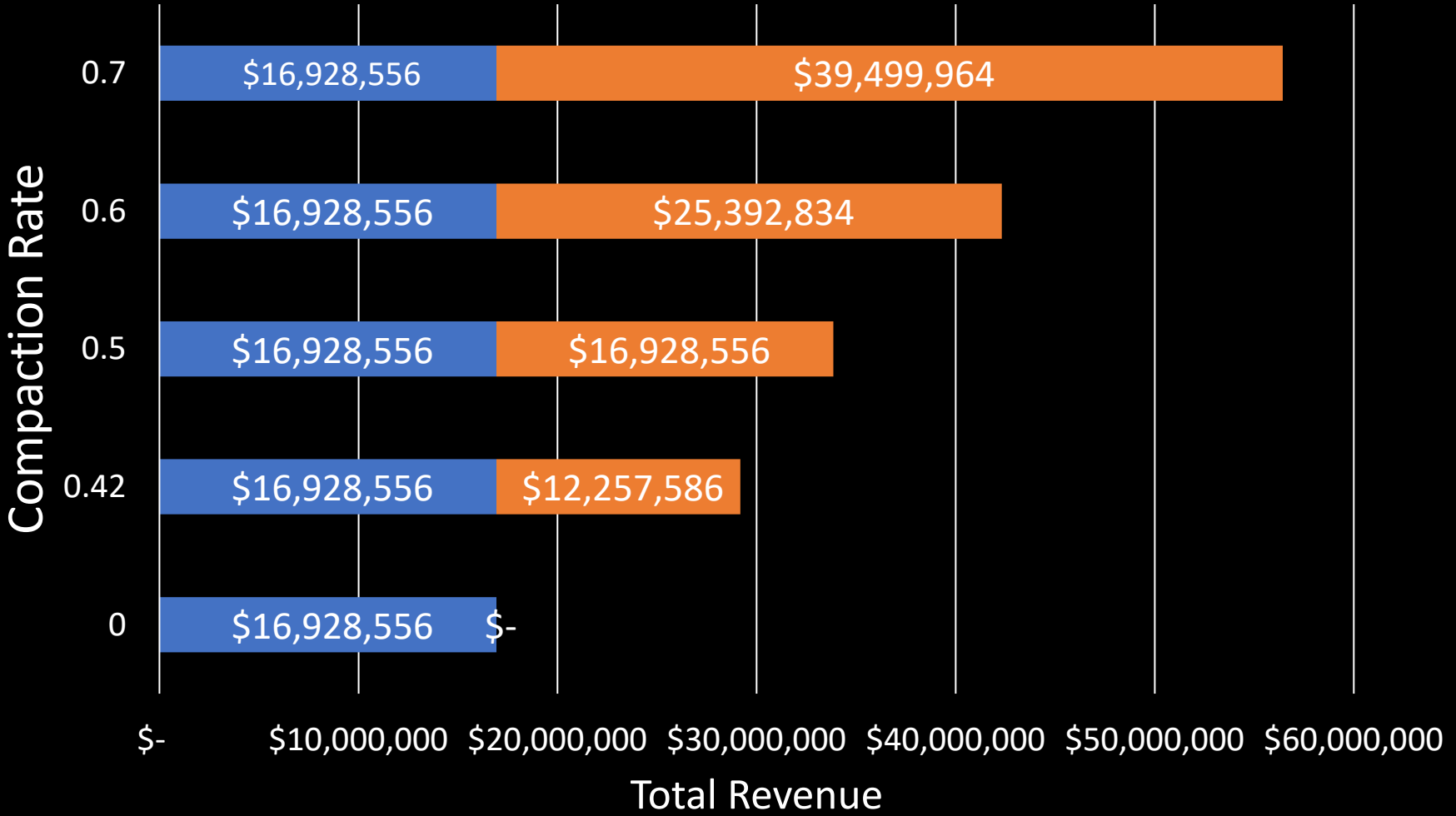
Operating Cost Per Yard Capacity assuming 42% Compaction

- Landfill Budget = \$35.68
- Phase IV Development = \$6.36
- Closing Costs = \$6.40
- Post-Closure Costs = \$3.13
- Total = \$51.57

Waste Acceptance Analysis

Annual Waste Acceptance Projections (2021 Phase IV)			
Waste Type	Quantity (Cubic Yards)	Tipping Fee (Price/Yard)	Total Revenue
BioWaste	4,290	\$44.06	\$189,000.00
Contaminated Soil	1,000	\$40.00	\$40,000.00
Construction and Demolition Debris	48,618	\$21.02	\$1,022,000.00
Ash	3,000	\$20.00	\$60,000.00
Annual Total Accepted	56,908		\$1,311,000.00
Compaction Rate	56%		
Annual Total Capacity Used	25,040		
Average Revenue Per Yard Used			\$52.36
Operating Costs Per Yard			\$35.68
Reserve Costs (construction, closure, post-closure)			\$15.89
Total Costs Per Yard			\$51.57

Total Potential Revenue based on Compaction Rates



■ TOTAL REVENUE UNMANAGED CAPACITY
 ■ TOTAL ADDITIONAL REVENUE FOR MANAGED CAPACITY

Potential New Taxes Due to Immediate Closure

Budget Item	Cost	Period
HPCF Budget Shortfall Due to Tannery Closure	\$310,000	Annually
HPCF Sludge Disposal	\$20,000	Annually
Landfill Closure (3.5 acres) \$1.4 million	\$60,382	30 years
Post-Closure Costs	\$78,264	Annually (30 years)
Remaining Landfill Loan	\$11,000	20 years
Total Annual Cost	\$479,646	
Estimated Price per mil	\$124,000	
Projected mil Increase	3.87	
Current mile Rate	22.20	
Projected mil rate without Phase IV	26.07	

SUMMARY

A vote to close the current cells and not develop the remaining available capacity of the Hartland landfill comes at an estimated cost of \$3,469,809 and GUARANTEES TAXATION.

SUMMARY

A vote in favor of borrowing \$3,533,000:

- Pays for additional landfill capacity, the purchase of a slow speed shredder, and a new set of truck scales;
- Paves the way for the diligent management of the landfill capacity that is needed to fund its operations, future closure, and post-closure costs; and
- MINIMIZES the potential for future taxation.

Paid for 100% through user fees

Written Questions

Written questions will be accepted through
Friday, March 19, 2021 at:

hartlandmelandfill@gmail.com

Landfill Manager

PO Box 280

Hartland, ME 04943

Questions?