



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
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Lieutenant Governor

ELLEN ROY HERZFELDER
Secretary

ROBERT W. GOLLEDGE, Jr.
Commissioner

July 22, 2004

Terry Berns
132R Low Street
Newburyport, MA 01950

Re: Public Records Request; Crow Lane Landfill

Dear Mr. Berns:

This correspondence concerns your pending request for a copy of the financial information pertaining to the closure of the Crow Lane Landfill, Newburyport, MA. By previous correspondence, the Department notified you of New Ventures' claim that this financial information was confidential and therefore exempt from public disclosure. The adjudicatory appeal relative to New Ventures' claim of confidentiality has been dismissed and the requested information is now public record. Accordingly, enclosed please find the *Proforma For Closure Project* for the Crow Lane Landfill. This document contains the financial information you requested.

Please do not hesitate to contact me at 617-556-1066 should you have any questions or wish to discuss this matter further.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey Mickelson".

Jeffrey Mickelson
Office of General Counsel

This information is available in alternate format. Call Donald M. Gomes, ADA Coordinator at 617-556-1057. TDD Service - 1-800-298-2207.

DEP on the World Wide Web: <http://www.mass.gov/dep>

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**CROW LANE LANDFILL
NEWBURYPORT, MASSACHUSETTS
GZA FILE NO. 15579.10
PROFORMA FOR CLOSURE PROJECT**

FILE

PART 1 PARAMETERS AND UNIT COSTS USED IN THE ANALYSIS



A. Volumes and Areas

• Surface Area of Landfill	14.2 acres
• Total Airspace Available (existing grades to finish grades)	549,000 cy
• Volume of Excavation to Construct Berm Base	(- 42,610 cy)
• Final Cap Volume (24-inch thick, 14.2 acres)	(- 46,000 cy)
• Net Airspace Available for B.U.D. Material	460,390cy
• Volume of Clean Fill Material in Berm	60,960 cy
• Detention Pond Excavations (rock)	(-13,000 cy)
• Net Clean Fill Required for Berm	47,960 cy

B. Compaction Factors

• BUD Fill Material Loose Truck Measure (1.80 cy Truck space/ton hauled)	1.80 cy/ton
• BUD Fill Material Compacted in place (1.35 cy airspace used/ton placed & compacted)	1.35 cy/ton

C. Earthwork Materials Costs

• Crushed Ordinary Fill (Berm)	\$10/cy
• Crushed Concrete (Berm)	10/cy
• Processed Stone	20/cy
• Sand/Gravel	15/cy

D. Labor and Equipment Costs

• Dozer	\$10,000/Month
• Excavator	10,000/Month
• Off Road Rock Trucks	8,000/Month
• Compactor	8,000/Month
• Front End Loader	8,000/Month
• Street Sweeper	6,000/Month
• Water Truck	6,000/Month
• Fuel & Maintenance	\$200/day/machine
• Labor: Foreman, Equipment Operations, Scale Operator, Laborers – average (hourly rate)	\$20/hour direct salary \$25.59/hr(w/benefits) \$38.95/overtime rate
• Scale/Scale House/Office set-up	100,000 L.S.
• Maintain Office/Utilities/Maintenance Operation and other Infrastructure including Misc. Supplies and Equipment	25,000/year

E. Equipment and Staffing Required



- Site Preparation Stage – (3 Months)
 - 2 Dozers
 - 2 Excavators
 - 1 Front Loader
 - 1 Compactor
 - 2 Off-Road Trucks
 - 7 Operators/Foreman

- Grading/Shaping Stage – (28 Months)
 - 1 Dozer
 - 1 Compactor
 - 1 Off-Road Truck
 - 1 Excavator
 - 1 Street Sweeper
 - 1 Water Truck
 - 1 Scale
 - 3 Operators/Foreman
 - 1 Scale Operator

- Capping/Final Closure Stage – (5 Months)
 - 1 LGP Dozer
 - 1 Excavator
 - 1 Compactor
 - 2 Off-Road Trucks
 - 1 Street Sweeper
 - 1 Water Truck
 - 1 Scale
 - 4 Operators
 - 1 Foreman
 - 1 Scale Operator

PART 2 SCOPE OF WORK/COST ESTIMATE

A. Environmental Site Assessment

<u>ISA</u>	
Background/File Research	\$2,800
Data Search	\$3,500
Prelim. Hydro Assessment	\$2,100
Site Recon./Mapping	\$3,000
Preliminary Chemical Screening	\$8,000
CSA/Sow Development	<u>\$2,000</u>



	\$21,400
<u>CSA</u>	
Mapping and Survey	\$6,500
Subsurface Explorations	\$5,000
Hyd. Conduct Testing	\$5,000
Chemical Sampling/Analysis	\$1,000
HASP	\$1,000
Report	\$9,000
CAA SOW	<u>\$1,500</u>
	\$29,000
Baseline Risk Assessment	<u>\$11,000</u>
Subtotal A	\$61,400

B. Engineering Design

Corrective Action Alternative Analysis	\$12,000
Closure Design	\$60,000
Permitting and Compliance (DEP and Local authorities)	\$120,000
Wetlands Consultant	<u>\$11,000</u>
Subtotal B	\$203,000

C. Site Preparation Construction (12 weeks duration)

• Clear grub and chip trees/bush	\$10,000
• Excavate trash and peat below proposed berm (43,000 cy @ \$3/cy)	\$129,000
• Separate, rehandle, screen stockpile, and place excavated trash and peat 43,000 cy @ \$3/cy	\$129,000
• Berm fill material costs (47,960 cy net reqd.) 47,960 cy x 30% @ \$10/cy (crushed ordinary fill)	\$143,880
47,960 cy x 70% @ \$10/cy (crushed concrete)	\$335,720
• Placement of berm fill 61,000 cy @ \$2/cy	\$122,000
• Survey Layout	\$15,000
• Wetlands Consultant	\$8,000
• Erosion/sediment controls	\$20,000
• Engineering/ permitting/compliance	\$25,000
• Cut/grub/chip existing trees, bush vegetation from landfill surface. Strip and stockpile existing topsoil (4 weeks)	
1 Dozer	\$10,000
2 Excavators	\$20,000
1 Front Loader	\$8,000
2 Off-Road Trucks	\$16,000
1 Compactor	\$8,000
Foreman and 6 operators include. 10hr/wk OT	\$101,282
Fuel/Main. X 24 day/ @200/day x 6 machines	\$28,800
• Excavate detention ponds 13,000 cy @\$20/cy (rock)	\$260,000
• Crush/process rock from detention ponds for use as Berm fill 13,000 cy @\$5/cy	<u>\$65,000</u>
Subtotal C	\$1,446,680

D. Operation (Grading/Shaping Stage – 28 Months duration)



- Equipment

Dozer (28 mo x \$10,000/mo. x 1)	\$280,000
Excavator (28 x \$10,000 x 1)	\$280,000
Rock Truck (28x \$8,000 x 1)	\$224,000
Compactor (28 x \$8,000 x 1)	\$224,000
Street Sweeper (28 x \$6,000 x 1)	\$168,000
Water Truck (28x \$6000x 1)	\$168,000
Scale/Scale house Office Set-up	\$100,000
Fuel and Maintenance (6 pieces x 20 days/mo. x 28 mo. @ \$200/day)	\$672,000
Maintain Office, Scale, Infrastructure (\$25,000/Yr. x 3)	\$75,000

- Labor

6 Personnel x \$25.59/hr. x 40 hr x 4 Wks/mo x 28 months	\$687,860
6 Personnel x \$38.39/hr x 10 hr x 4 wks/mo x 28 months	\$264,700

- Gas Management

Temporary active landfill gas propane boosted flare system	\$45,000
Operation of temporary active gas extraction system 28 x 30 = 840 days @ \$200/day	\$168,000

- Engineering and Regulatory Compliance \$56,000
- Quality Assurance Monitoring/Random Testing \$70,000

- Materials

Miscellaneous Operations Supplies, e.g. Gravel, Crushed Stone, Pipe, Filter Fabric and E& S Materials	\$150,000
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Subtotal D \$3,632,560

E. Capping and Closure

Furnish/Install Capping System (\$120,000/Acre x 14.2 Acres)	\$1,704,000
Engineering/Quality Assurance, Construction Management, Monitoring/Regulatory Compliance (During Construction)	\$120,000
Regulatory Closure, Legal Fees, Bond and Insurance	\$140,000
Environmental Monitoring during operation & closure \$11,000/quarter x 3.5 yrs x 4 qtrs	\$154,000
Subtotal E	\$2,118,000

F. Post Closure Costs

• Maintain/Repair for 1 st year or until vegetative growth will established		\$150,000
Quarterly Inspections	\$2,500/year	
General Maintenance	\$4,000/year	
Environmental Monitoring	\$11,000/year	
Landfill gas system maintenance	\$5,000/year	
	\$23,500/year	
	\$23,500/year x 30 yrs	\$705,000
FAM. 10% x \$705, 000		\$70,500
	Subtotal F	\$925,500



G. Host Community Agreement Contributions

• Mitigation Fund (LSP, Testing, Traffic Controls, Police Details, etc.		\$ 75,000
• Legal Fund		\$50,000
• Site Preparation for Ballfield or Cash Equivalent		\$130,000
	Subtotal G	\$255,000

Total Cost Site Prep, Operation, Capping & Post Closure \$8,642,190

PART 3 – REVENUE ESTIMATE

Net Airspace Available for B.U.D. Material	460,390 cy
460,390/cy/1.34 cy/ton =	343,570 tons
Market price expected to fluctuate between \$12 and \$17 per ton	
343,570 Tons @ \$15/Ton (average)	\$5,153,500