

Air and Water Management Association

Green Remediation

October 27, 2016



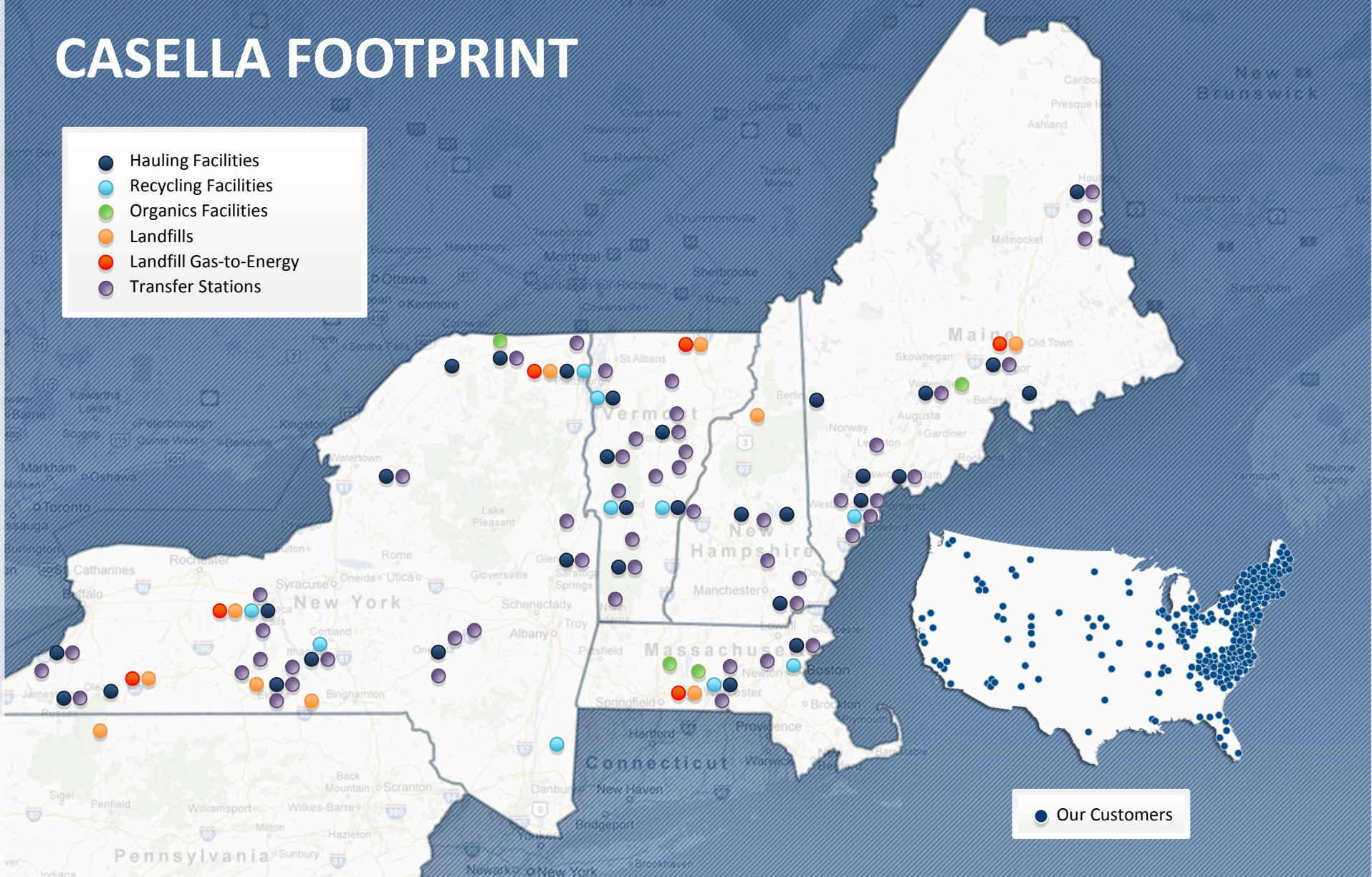
Company Overview

- We have 1,900 employees serving over 170,000 customers
- Traded on NASDAQ as CWST
- Over \$546M in annual revenue
- Operations in MA, ME, NH, NY, PA, and VT
- Customers in over 40 states
- Vertically integrated collection, transfer, disposal and recycling operations
- Recovering nearly 800,000 tons of recycling & over 450,000 tons of organics for beneficial use each year
- Since 2005, we have cut our companywide carbon emissions by over 50%



CASELLA FOOTPRINT

- Hauling Facilities
- Recycling Facilities
- Organics Facilities
- Landfills
- Landfill Gas-to-Energy
- Transfer Stations



Organics Group | Residuals Management & Recycling

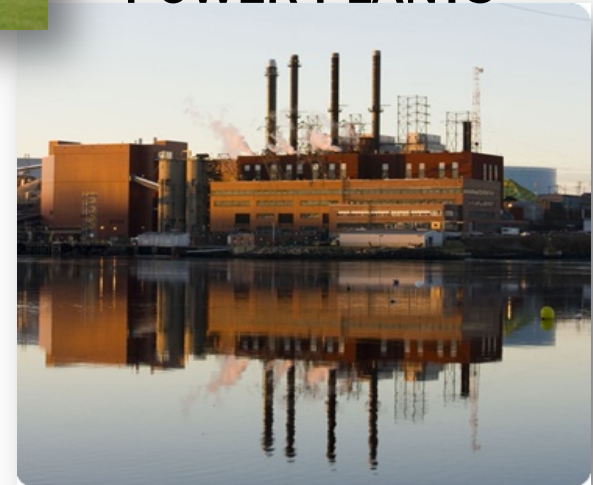
WWTP's & COMPOST FACILITIES



PAPER MILLS



POWER PLANTS



PRODUCING AND PROMOTING QUALITY SOIL AMENDMENTS



earthlife® Product Sales

Golf Courses/Athletic Fields/Lawns/Greenhouses/
Garden Centers/Landscaping/Farms



Products

- Compost
- Mulch
- Liming Agents
- Container Media
- Topsoil Amendment
- Fertilizer
- Roof Top Gardens
- Wetland Soils
- Bioretention Cells
- Biofilter Media
- Engineered Soils



Soil Amendment Trace Metal Comparison



Product: Hawk Ridge Compost

Updated: April 15, 2014

METAL (Part per million; dry weight basis, unless noted)	EPA STANDARD ¹	ME DEP STANDARD ²	HAWK RIDGE COMPOST ³	Average US Ag Soil ⁴
ARSENIC	41	34	4.2	6.3
CADMIUM	39	10	0.7	0.3
CHROMIUM	NS	1000	11	33.0
COPPER	1500	1000	144	19.4
LEAD	300	300	15	20.1
MERCURY	17	6	0.24	0.0
MOLYBDENUM	NS	75	2.2	0.9
NICKEL	420	200	9	15.5
SELENIUM	100	100	2.02	0.4
ZINC	2800	2000	257	58.9

NS = No Standard; NA = Not Available

1. USEPA 40 CFR Part 503 Regulations, promulgated 1992
2. ME DEP - Solid Waste Regulations, Chapter 419, Table 419.3, promulgated 1999, updated 2012
3. Hawk Ridge Compost, average metals values, 2014, analyses by Maine Environmental Laboratory
4. David B. Smith et al. "Geochemical and Mineralogical Data for Soils of the Conterminous United States", USGS, 2013



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Closed loop Recycling supports local farms

- Conventional and Organic products
- Liming agents, animal bedding, fertilizer, wood ash, & compost
- Technical assistance provided including soil sampling
- More than 35 spreaders available
- Agronomist & crop advisors on staff
- Sustainable solutions for industries generating byproducts



The value of recovered nutrients: biosolids

- 4.5% nitrogen by weight
- .22 gallons of fuel used to make every lb of synthetic fertilizers
- Provides water in drought conditions
- Micronutrients
- Available in multiple forms
 - Cake
 - Pelletized
 - Liquid



Agricultural Land Application



Hay in Draught Conditions



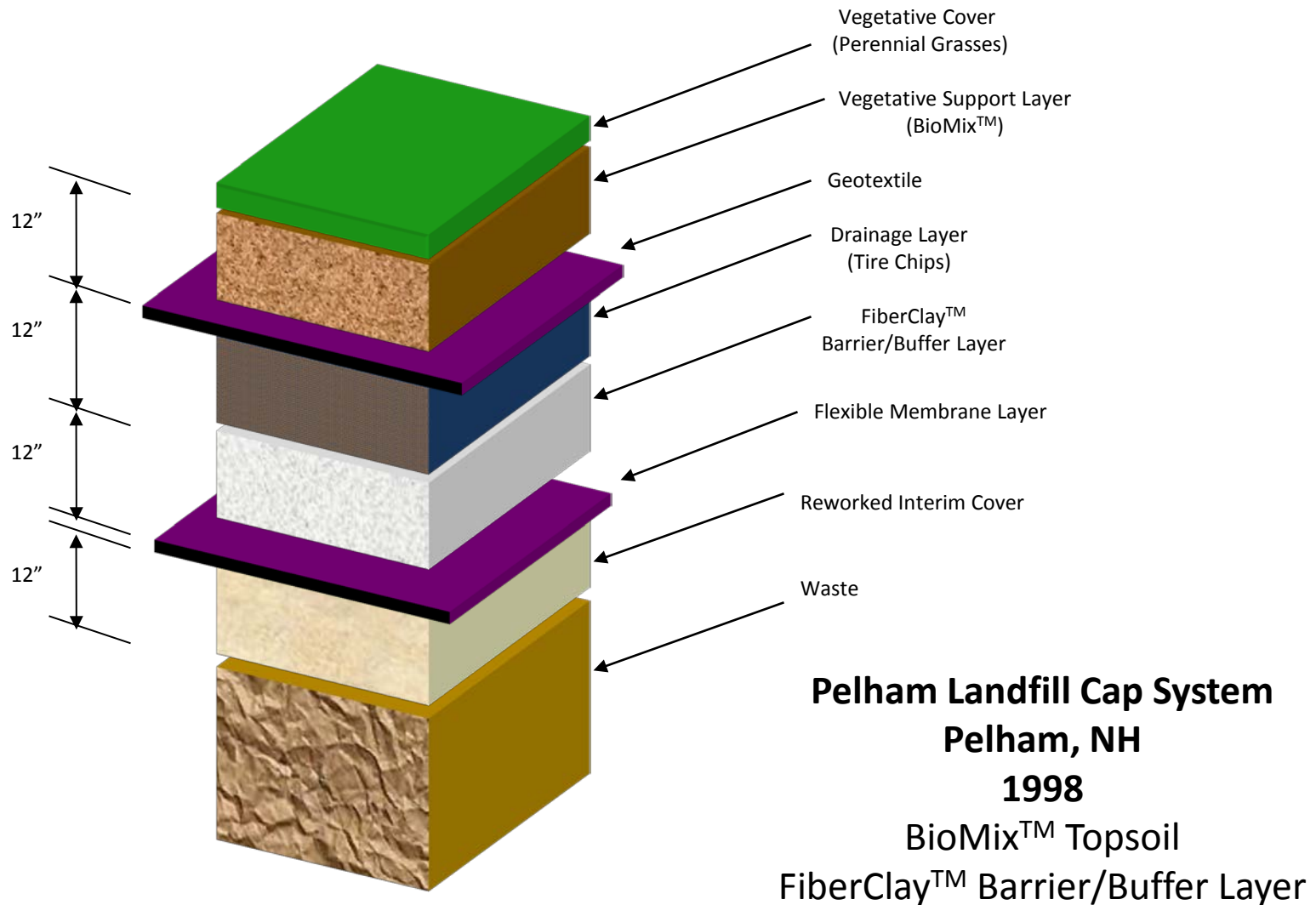
- “aggressive enhancement program”.
- 150 tons of **earthlife®** pellets/year for 4 years = fields that are:
 - proper pH
 - right blend of nutrients and trace minerals
- Hay volume is ahead of last year
- Farmer finished cutting 110 acres in record time AND got a second crop



SITE RESTORATION



LANDFILL AND SITE CLOSURE



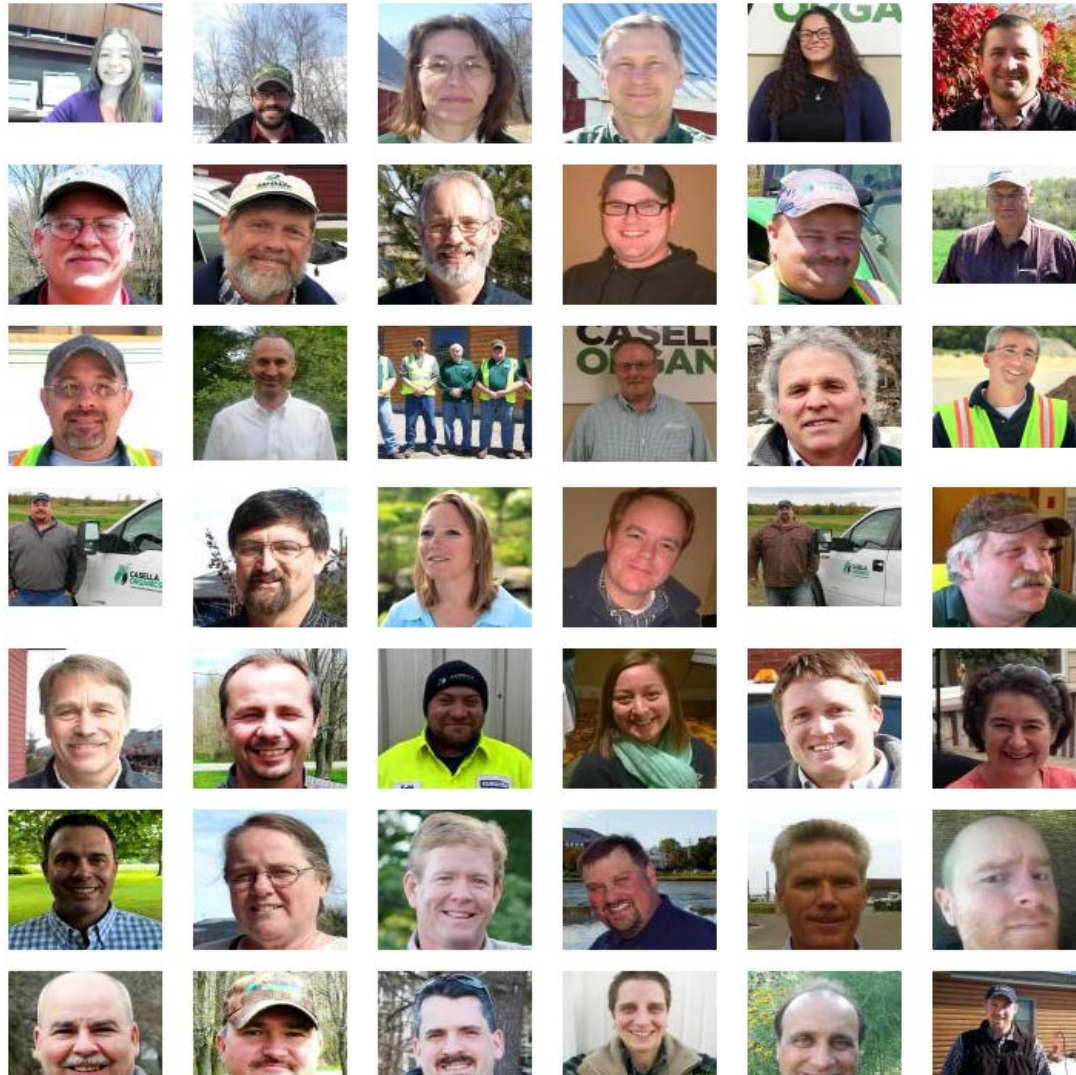
LANDFILL BARRIER LAYER



VEGETATIVE SUPPORT LAYER



Committed and Passionate Crew



Thank you!



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