



Update on PFAS Sampling in Biosolids

David Burns, P.E., Director
Bureau of Remediation & Waste Management

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

Protecting Maine's Air, Land and Water

Presentation Overview

- Results from March 2019 testing
- Historical Information
- Where to find the information
- Other PFAS testing
- Looking towards the future



March 2019 Results Summary

- Compost Facilities
 - 23 licensed facilities
 - Results from 19 facilities
- Land Application
 - 41 facilities with agronomic utilization program licenses
 - Results from 34 facilities
- Papermills
 - 9 facilities with agronomic utilization program licenses
 - Results from 7 facilities



Historical Information

- Why does this matter?
- Approach
- What we know and what we don't know
- What will happen with the data



Information Format

2019-09-06-sludge-bioash-land-application - Read-Only - Excel

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard Font Alignment Number Styles Cells Editing

D4

All Sludge and Bioash Land Application Data (found in Maine DEP records as of March 2019)							
Licensee	Year	Site	Field	Volume in Cubic Yards	Utilizable Acres	Acres Utilized	Comments
Anson-Madison Sanitary District							No spreading records found
Baileyville WWTP	1995	Wentworth	2	10.5	2.5		10.5, Sludge applied on field per report, did not indicate type gals/tons/cu/yds; assumed to be cubic yards
Baileyville WWTP	1995	Wentworth	3	21	5.5		21, Sludge applied on field per report, did not indicate type gals/tons/cu/yds; assumed to be cubic yards
Baileyville WWTP	1996	Wentworth	1	48	5.7		Reported in gallons; used conversion factor of 0.00063
Baileyville WWTP	1996	Wentworth	3	25	5.5		Reported in gallons; used conversion factor of 0.00063
Baileyville WWTP	1997	Wentworth	1	30	5.7		
Baileyville WWTP	1997	Wentworth	3	60	5.5		
Baileyville WWTP	1998	Wentworth	1	8	5.7		
Baileyville WWTP	1998	Wentworth	2	61	2.5		
Baileyville WWTP	1998	Wentworth	3	58	5.5		
Baileyville WWTP	1999	Wentworth	1	24	5.7		
Baileyville WWTP	1999	Wentworth	2	24	2.5		
Baileyville WWTP	1999	Wentworth	3	41	5.5		
Baileyville WWTP	2000	Wentworth	1	22	5.7		30 additional Cu/yd sent to Hawk Ridge Landfill.
Baileyville WWTP	2000	Wentworth	2	10	2.5		
Baileyville WWTP	2000	Wentworth	3	23	5.5		
Baileyville WWTP	2001	Wentworth	1	33	5.7		18 additional cu/yd stockpiled dry
Baileyville WWTP	2001	Wentworth	2	7	2.5		
Baileyville WWTP	2001	Wentworth	3	17	5.5		
Baileyville WWTP	2002	Wentworth	1	25	5.7		35 cu/yd produced 49 cu/yd additional stockpiled total 84. Spread 25 stockpiled cu/yds.
Baileyville WWTP	2002	Wentworth	2	11	2.5		
Baileyville WWTP	2002	Wentworth	3	24	5.5		
Baileyville WWTP	2003	Wentworth	1	17	5.7		19 cu/yd produced 30 cu/yd additional stock piled total 49 cu/yd. Spread 53 cu/yds from stockpile.
Baileyville WWTP	2003	Wentworth	2	6	2.5		Spread 19 + 53 cubic yds in 2003
Baileyville WWTP	2003	Wentworth	3	12	5.5		
Baileyville WWTP	2003	North West Tower field		37	5.6		
Baileyville WWTP	2004	Wentworth	1	21	5.7		42 cu/yds produced additional 40 cu/yd sent to Hawk Ridge Land Fill 30 cu/yds stockpiled applied
Baileyville WWTP	2004	Wentworth	2	16	2.5		
Baileyville WWTP	2004	Wentworth	3	42	5.5		
Baileyville WWTP	2005						152 cubic yards sent to Domtar landfill and 100,000 gal liquid to Domtar lagoons
Baileyville WWTP	2006						54 cubic yards sent to Domtar landfill 75,000 gal liquid to Domtar and 33,000 gal to Soil Prep.
Baileyville WWTP	2007						43 cubic yards and 100,000 gal sent to Domtar
Baileyville WWTP	2008						390 cubic yards sent to landfill, location not listed
Baileyville WWTP	2009						140 cubic yards sent to landfill, location not listed
Baileyville WWTP	2010						239 cubic yards sent to landfill, location not listed
Baileyville WWTP	2011						126 cubic yards sent to landfill at Domtar
Baileyville WWTP	2012						84 cubic yards sent to landfill didn't list where
Baileyville WWTP	2013						94 cubic yards sent to landfill at Domtar
Baileyville WWTP	2014						83 cubic yards sent to landfill at Woodland Pulp LLC
Baileyville WWTP	2015						84 cubic yards sent to landfill at Woodland Pulp LLC
Baileyville WWTP	2016						66 cubic yards sent to landfill at Woodland Pulp LLC

Ready

ReadMe All Site Licenses All Spreading Activities Anson-Madison Baileyville Bath Belfast Bethel Bingham Blue Hill Boothbay Harbor Brewer Brunswick Bucksport Bucksport Generation Camden

8:25 AM 9/3/2019

Where to find the Information

- All PFAS data located at:
 - <https://www.maine.gov/dep/spills/topics/pfas/PFAS-all-results-8.9.2019.pdf>
- Historical Records for Biosolids located at:
 - <https://www.maine.gov/dep/ftp/sludge-bioash/2019-09-06-sludge-bioash-land-application.xlsx>
- PFAS mapping tool located at:
 - <https://maine.maps.arcgis.com/apps/webappviewer/index.html?id=731ba8744cbe4de69abc5bfc33d5ede5>
- Feed back requested: <mailto:pfas.dep@maine.gov>



Other PFAS Testing

- Biosolids compost used in a home garden
- Closed, unlined landfill sites
- Remediation sites
- AFFF Class B firefighting foam sites
- 4 polymers used at treatment plants
- Septage



Future?

- Continue with requirements in Chapter 419
- Follow-up with licensees will occur
- Commissioner Reid to cover more fully during his lunchtime address today





Contact:

David Burns, P.E.

dave.e.burns@maine.gov

(207) 287-7890

www.maine.gov/dep

