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Biosolids Management Program (*formerly called EMS Program*)

About the NBP Biosolids Management Program

The National Biosolids Partnership (NBP) provides training and support to help biosolids management organizations ensure that their programs are environmentally sound and protective of public health.

The NBP Biosolids Management Program (BMP) is based on internationally recognized standards for an Environmental Management System /International Organization of Standardization (ISO 14001). With guidance from biosolids professionals, experts, and leading biosolids management organizations, the NBP has created a management program tailored to the priorities and needs of the wastewater profession. It serves as a model for continuous improvement in the areas of environmental performance, regulatory compliance, quality management practices, and relations with interested parties and other stakeholders.

Organizations that have chosen to become certified by the NBP collectively manage

more than 12% of the biosolids in the United States. These organizations have documented significant benefits in using the program's tools to reduce operating costs and achieve greater efficiencies while protecting public health and managing residuals in an environmentally beneficial and cost-effective manner. NBP organizations focus on consistently producing a high-quality biosolids product for intended markets/end use options and promoting resource recovery while achieving and maintaining public and regulatory trust and acceptance.

The NBP encourages all biosolids management organizations—small, medium, and large—and whatever biosolids treatment and management option is used to participate in the program. Organizations have the option either to develop an audit-ready program or to pursue certification.

A Safe and Proven Product

Regulations that ensure safe recycling of biosolids have been in effect since the 1970s and were made more comprehensive by the Clean Water Act amendments. South Carolina's biosolids rules have historically surpassed the high quality requirements set by the EPA.

By following federal and state regulations, biosolids can be safely recycled for the benefit of farms and forests, and for improving soil properties.

A South Carolina Resource

ReWa biosolids are available to farmers in 4 South Carolina counties. Many use biosolids as their



Goals and Objectives

ReWa continually improves its program each year by accomplishing goals and objectives set. The table below lists some accomplishments achieved in FY 2011. To find out more about getting involved contact us at

www.rewaonline.org.

Goal	Progress	Outcomes
Identify microconstituents of concern	No microconstituents have been identified to have an adverse environmental impact in concentrations typically found in wastewater.	Environmental Performance, Regulatory Compliance
Reduce hauling costs	Solids concentration was increased at the Durbin Creek Facility in January 2010. Solids concentrations were increased from 3% to 4%. Plot studies at Durbin Creek will be utilized as an ongoing pilot to determine the feasibility and impact of increasing the land applied biosolids concentration. In addition, biosolids are now more accurately being measured at truck loading stations to ensure trucks are loading to capacity (6,200 gal).	Quality Biosolids Management
Evaluate the feasibility of converting to Class –A biosolids production at the Mauldin Road WWTP with the existing infrastructure or with slight modifications to that infrastructure. It is anticipated that operational enhancements will be identified as a part of this evaluation	ReWa has contracted with an engineering consultant to provide this evaluation, and it will be complete in the early part of FY2011.	Quality Biosolids Management
Educate State Legislature about biosolids	County extension agents will be contacted to learn about opportunities for effectively engaging the State Legislature.	Relations with Interested Parties
Improve relations with interested parties.	Two interested parties will be contacted to brainstorm ideas and options for civic and/or educational opportunities.	Relations with Interested Parties

Regulatory Compliance

ReWa’s biosolids management practices comply with all applicable federal, state, and local requirements, as well as other voluntarily adopted requirements.

Our biosolids have consistently met all standards for use of Class B biosolids required by the U.S. EPA. ReWa’s biosolids are well below the EPA regulatory limits for metal concentrations and well below the fecal coliform levels established by state and federal regulations.

	Metals Concentrations in mg/kg								
	Cd	Cu	Pb	Zn	Ni	Mo	As	Se	Hg
ReWa mk/kg	5	370	27	1346	44	26	9	9	2
EPA mg/kg	85	4300	840	7500	420	75	75	100	57



Fecal Coliform (MPN/gram TS)	
EPA Requirement	<2,000,000
ReWa Average	15,537

% Volatile Solids Reduction	
EPA Requirements	≥38%
ReWa Average	62%

Contractor Performance

In FY2011, SYNAGRO, LLC. applied 6,743 dry tons of biosolids to approximately 4,000 acres of local permitted farmland. SYNAGRO met all regulatory requirements and followed best management practices for reusing ReWa’s biosolids.

SYNAGRO, LLC. currently manages more than 10 South Carolina biosolids land application programs and over 600 nationwide. Synagro is fully committed to:

- Environmental protection
- High standards of operations
- Meeting or exceeding all regulatory requirements



Public Outreach

ReWa's public outreach efforts related to the Biosolids EMS include:

- Responding to 5 public inquiries about our biosolids program.
- ReWa has had 319 visits to our Biosolids page and 176 visits to our EMS page in FY2011.
- Conducted 21 plant facility tours.

Third Party Audit

ReWa completed an onsite readiness review and upon addressing some minor nonconformances and opportunities for improvement will expect a full third party audit in September 2011. ReWa looks forward to certification.



Contact Us

To find out more information about ReWa's Biosolids and EMS Program, please visit the ReWa Biosolids website at: <http://www.rewaonline.org/biosolids-program.php>

If you have any comments or input to our Biosolids Program, please contact Joey Collins, Operations Manager/Solids at joeyc@re-wa.org or (864) 200-4040 ext. 352.