

Summary of **ecomaine**'s ISO 14001

Provided to Executive Board Meeting

15 December 2011

*at request of*

David Cole, Gorham Board Member

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*Any questions or comments please contact:*

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**Overview**

ISO 14001 is an Environmental Management System (EMS) that provides a framework for managing environmental responsibilities. Developed by the International Organization for Standardization (ISO) based in Geneva, the system outlines procedures and policies for organizations to use to manage their potential impact on the environment.

**ecomaine**'s achievement of ISO 14001 certification recognizes a high standard to manage environmental responsibilities and a commitment to continuous improvement. Every 6 months **ecomaine**'s three facilities are audited and the ISO 14001 certification has been consistently maintained since each facility was first registered.

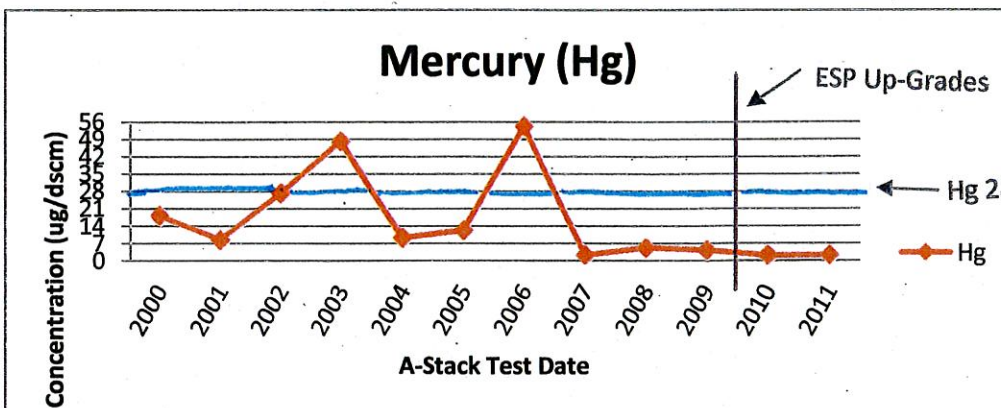
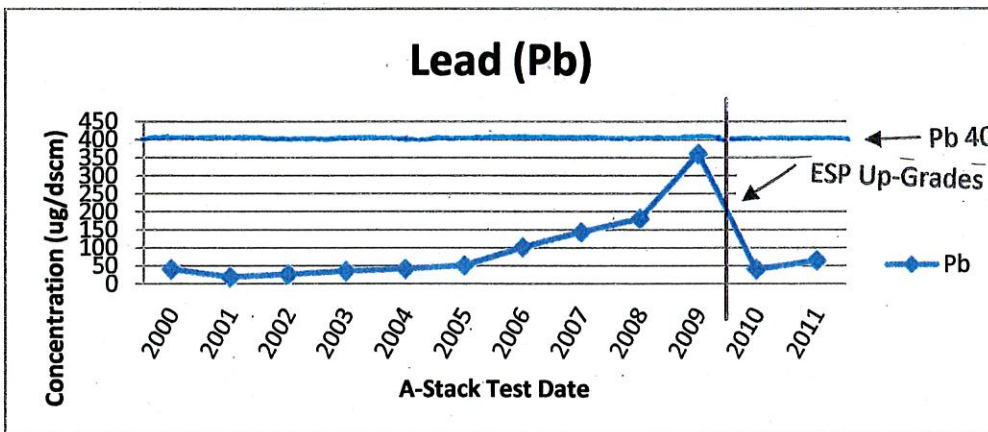
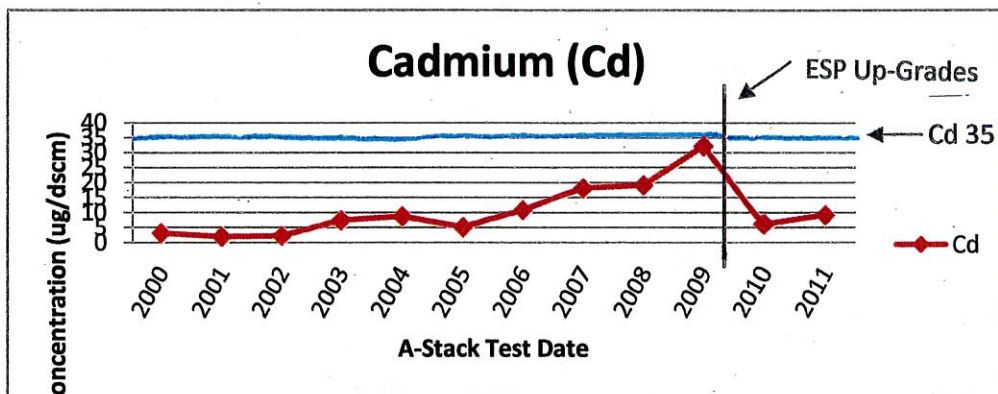
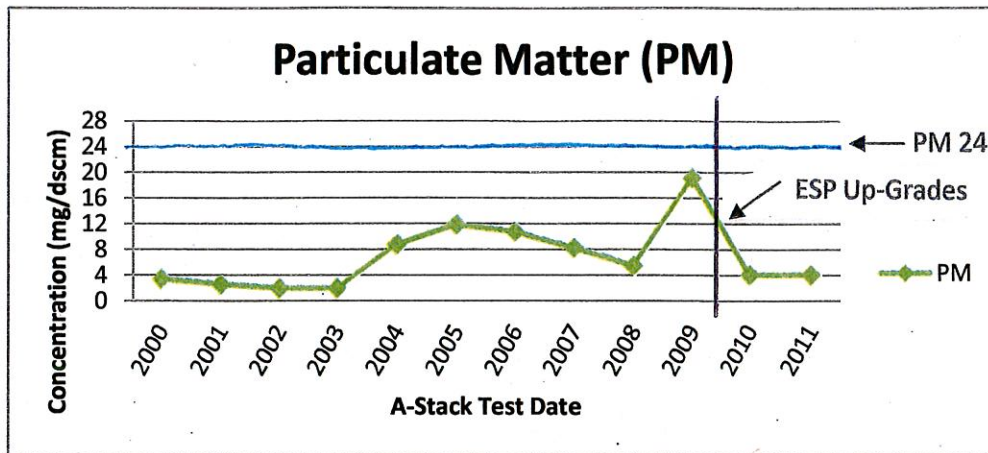
Waste-to-Energy Facility	March 2002
Recycling Center	October 2002
Landfill/Ashfill	March 2007

**How does the EMS work?**

Implementing and maintaining ISO 14001 certification is managed through a defined process with specific timetables, accountability, review processes and involvement throughout the organization. **ecomaine** established an organizational structure, planning activities, responsibilities, practices, procedures, processes, and resources for review and maintenance of the EMS.

An excellent example of ISO 14001 is the EMS Work Group. The EMS WG meets monthly and is comprised of employees from all sectors of **ecomaine**: WTE plant, recycling, landfill/ashfill, maintenance and administration. As part of the EMS WG, **ecomaine** has developed an Environmental corrective and preventative action program, designed to ensure that "environmental incidents" (ie: air exceedances of emissions limits, oil leaks from hauler vehicles, etc), have prompt corrective action to prevent recurrence. The EMS WG participate in identifying objectives, targets and environmental aspects to help assure **ecomaine**'s commitment to environmental protection.

# A-Boiler – Trend Plot of Historical Stack Test Data



Current pricing Company A Company B Company C Company D

	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak
Feb-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0520	\$0.0439	\$0.0457	\$0.0373	\$0.0458	\$0.0369
Mar-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0429	\$0.0352	\$0.0364	\$0.0289	\$0.0361	\$0.0290
Apr-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0425	\$0.0343	\$0.0334	\$0.0265	\$0.0321	\$0.0268
May-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0418	\$0.0327	\$0.0334	\$0.0264	\$0.0320	\$0.0262
Jun-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0432	\$0.0323	\$0.0362	\$0.0264	\$0.0357	\$0.0261
Jul-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0520	\$0.0359	\$0.0436	\$0.0292	\$0.0433	\$0.0290
Aug-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0520	\$0.0358	\$0.0436	\$0.0292	\$0.0433	\$0.0290
Sep-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0428	\$0.0327	\$0.0353	\$0.0265	\$0.0351	\$0.0264
Oct-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0423	\$0.0330	\$0.0349	\$0.0273	\$0.0345	\$0.0279
Nov-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0439	\$0.0350	\$0.0366	\$0.0291	\$0.0361	\$0.0294
Dec-11	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0523	\$0.0439	\$0.0475	\$0.0397	\$0.0487	\$0.0415
Jan-12	\$0.0433	\$0.0433	\$0.0389	\$0.0389	\$0.0573	\$0.0469	\$0.0541	\$0.0445	\$0.0575	\$0.0466

Avg.	\$0.0433	\$0.0389	\$0.0415	\$0.0351	\$0.0353
Annual \$	3,553,880	3,188,160	3,405,989	2,879,671	2,892,003



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## WHY WASTE-TO-ENERGY?

### FAQ

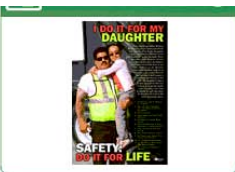
FREQUENTLY ASKED QUESTIONS AND ANSWERS EXPLAINING THE RENEWABLE, CLEAN, SAFE - AND UNDERDEVELOPED ENERGY RESOURCE

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### NEWS

- ACORE's Phase II National Policy Conference: Renewable Energy in America
- ERC Defends Waste-to-Energy Against Inaccurate Report
- NAWTEC Call For Papers is Available
- Congress Chooses Waste-to-Energy
- ERC Submits Comments to EPA on Measuring MSW Trends
- Minneapolis WTE Facility Earns SWANA Award
- Grenada Considering Waste-to-Energy
- Arizona Takes Steps to Make WTE Renewable
- Durham WTE Facility Given Green Light by Ontario Ministry of Environment
- Green Conversion Systems Makes Strides in Los Angeles

### PARTNERS



**GREENHOUSE GAS REDUCTIONS**

93,189,156

CO2 EQUIVALENT TONS THAT WASTE-TO-ENERGY HAS REDUCED SINCE JANUARY 1, 2009

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### About Us

The Energy Recovery Council is a national trade organization representing the waste-to-energy industry and communities that own waste-to-energy facilities. Current ERC members own and operate 69 of the 86 modern waste-to-energy facilities that operate nationwide, safely disposing of municipal solid waste, while at the same time generating renewable electricity using modern combustion technology equipped with state-of-the-art emission control systems. These facilities have been recognized by EPA as a "clean, reliable, renewable source of energy" that produce electricity with less environmental impact than almost any other source of electricity. Energy Recovery Council members include Covanta Energy Corporation, Wheelabrator Technologies Inc., and Babcock & Wilcox, as well as 28 municipalities that are served by waste-to-energy plants and other associate members that work in the municipal waste management and energy fields.

### Waste-to-Energy Companies

- Covanta Energy Corporation
- Wheelabrator Technologies Inc.
- Babcock & Wilcox

### Local Government Members

- City of Alexandria/Arlington County, VA
- Bristol (CT) Resource Recovery Facility Operating Committee
- Broward County, FL - Office of Integrated Waste Management
- Camden County (NJ) Pollution Control Financing Authority
- City of Long Beach, CA
- City of Red Wing, MN
- City of Tampa, FL
- Colorado Springs Utilities
- Connecticut Resource Recovery Authority
- Dade-Miami County, FL - Department of Solid Waste Management
- Delaware Solid Waste Authority
- ecomaine
- Fairfax County, VA
- Greater Detroit Resource Recovery Authority
- Islip (NY) Resource Recovery Agency
- Lancaster County (PA) Solid Waste Management Authority
- Montgomery County (PA) Waste Systems Authority
- Northeast Maryland Waste Disposal Authority
- Onondaga County (NY) Resource Recovery Agency
- Olmsted, MN
- Pinellas County (FL) Utilities - Department of Solid Waste Operations
- Polk County (MI) Solid Waste Resource Recovery Plant
- Solid Waste Authority of Palm Beach County (FL)
- Spokane (WA) Regional Solid Waste System
- Town of Wallingford (CT)
- Union County Utilities Authority
- Wasatch Integrated Waste Management District/Davis and Morgan Counties, UT
- York County (PA) Solid Waste Authority

### Associate Members

- Dvirka & Bartlucci Consulting Engineers
- Energy Answers International
- Gershman, Brickner, & Bratton, Inc.
- Green Conversion Technologies LLC
- Jansen Combustion & Boiler Technologies, Inc.

- [Martin GmbH](#)
- [Minnesota Resource Recovery Association](#)
- [Plasma Power LLC](#)
- [Ramboll](#)
- [Resource Recycling, LLC](#)
- [Rich and Henderson, P.C.](#)

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