



# Montclair State University

Vice President, University Facilities

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1 Normal Avenue Montclair, NJ 07043

January 13, 2009

Andrew Bellina, PE  
Senior Policy Advisor  
USEPA - Region 2  
290 Broadway  
New York, NY 10007-1866

Dear Mr. Bellina,

Per the email that you had sent to Professor Nicholas Smith-Sebasto on December 2, 2008, please consider this as the semi-annual update to the Memorandum of Understanding (MOU) between the United State Environmental Protection Agency and Montclair State University. In the future, for administrative matters relating to the MOU, please address these directly to me at the above or forward it to me, via email, at [bresslerg@mail.montclair.edu](mailto:bresslerg@mail.montclair.edu).

As described in Item III Part C (Status Reporting) in the original MOU, the University is hereby reporting updates on the various activities that were agreed upon. Please note the following:

- **Environmental Management Systems (EMS)**  
We continue to utilize this software as noted in the MOU.
- **Municipal Solid Waste (MSW) Recycling and Re-use**  
MSU is a partner of the Waste Wise Program. MSU will begin to audit MSW commencing with the 2009 RecycleMania event to help develop a baseline waste generation data.
- **Organics/Food Waste Composting**  
Since the formal signing of the MOU on June 17th, 20,000lbs of food scraps have been processed in the aerobic in-vessel digester to produce compost material. The use of this unit continues.
- **Mixed Fiber (Paper) and Bottles/Cans Recycling**  
The University continues to recycle paper, cardboard and co-mingled cans and bottles. A new recycling center dispenser has been purchased, with plans to purchase three (3) additional units during the first quarter of calendar year 2009. These efforts will continue to enable increased opportunities for members of the campus community to conveniently dispense of their recyclables into appropriate containers.
- **Environmentally Preferable (Green) Products**  
The percentage of green products by the Housekeeping department has risen from 80% to 85% since the signing of the MOU in June. We are currently looking at green options for stainless steel cleaners and furniture polishes, and are continuously reviewing the latest products in an attempt to further expand the use of green products on campus. One

hundred percent (100%) of MSU's office paper, roll paper hand towels and toilet paper is comprised of recycled fibers and materials.

- **Participation in EPA's RecycleMania Yearly Contest**

The University will once again participate in this worthwhile event during the spring 2009 semester. This will mark the third consecutive year of Montclair State University's inclusion in this important promotional event.

- **Using Food Waste Composted On-Site Under the MSU Reforestation Program**

Compost that was produced in the aerobic in-vessel digester from food scraps was utilized by the Grounds Services Department as follows:

- Compost material was mixed with top soil and utilized in a turf revitalization project around numerous campus buildings (Sprague Library, Webster Hall, Richardson Hall and Student Center).
- The compost has been mixed with sand and utilized as a divot repair on the newly installed soccer turf.
- Seven (7) new oversized planters have been placed strategically around the University to disallow vehicular traffic in the campus core. These planters contain a mix of top soil and composting material to promote healthy growth of various plant specimens.

- **Electronics Waste (E-Waste) Recycling**

We continue to our program pursuant to the MOU.

- **Energy Usage and Carbon Footprint Reduction**

The University has:

- Developed the historical load profile and present energy use
- Developed the trend analysis of energy costs
- Projected our future energy use
- Developed a Steam load profile
- Developed an Electrical load profile

The Montclair State University Supervisory Control and Data Acquisition (SCADA) Improvements Project has been designed to enhance electrical automation systems and related alarms, in support of the initiatives of the strategic objectives of the University. The present effort is being designed to improve the front-end software interfaces and display screens, to enhance communications with the University network infrastructure, to initiate remote alarming for critical response personnel, and to explore sustainability and energy management through the understanding of required building loads. As is noted below, the University advancing new combined heat and power plant.

- **Solar Energy**

The University is currently exploring the use of photovoltaic technology. Possible areas where this technology may be added include: a soon to be constructed 1100 space parking deck, the Clove Road Apartment complex and the Finley/Mallory academic buildings.

- **Energy Cogenerator**

While there has been no change in the mode or operational efficiency of the existing equipment configuration, the University is working with consultants and representatives of various State of New Jersey agencies to advance a new combined heat and power plant (CHHP). This project is advancing through its design and approval process. The initial

activities in this process was a comprehensive energy master plan evaluation of all of the University's energy consuming equipment and recommendation of energy conserving improvements, including a new CHHP.

- **Energy Conservation and Emergency Generators**

We continue to operate as has been stated.

- **Integrated Pest Control**

The University has and shall continue to utilize Integrated Pest Management methodologies on campus.

- **Promoting the Use of Alternative Fuel Vehicles and Low-Sulfur Diesel Fuel**

Discounted parking permits, 50% for drivers of hybrid vehicles and 100% for drivers of clean fuel vehicles are offered. Discounts for carpoolers are also offered to encourage high occupancy vehicle use.

Campus shuttle buses use low-sulfur clean diesel fuel. Upon request, Parking Services provides information to the MSU community about car and vanpooling as well as mass transit that connects with the University. We have assisted in the formation of one employee carpool. Bicycle racks are provided for free. A free shuttle system, to discourage single occupancy vehicle travel is also offered. In addition to numerous electric vehicles utilized as service vehicles by the Trades shops, the Mailroom is using a clean energy vehicle called a Neighborhood Electric Vehicle (NEV). Dining Services is also using two NEV's.

- **Incorporating Green Technologies in New and Renovated Buildings and Leadership in Energy and Environmental Protection Design (LEED)**

The University advertised a Request for Qualifications on September 3, 2008 for a New School of Business ranging in size of 95,000 to 115,000 SF. The sustainability goal for this project has been established at a LEED rating of Silver or higher.

- **Landscaping and Storm Water Conservation Programs**

Plant materials purchased by the University are drought resistant and native to northern New Jersey. An irrigation system was installed simultaneous to a re-sodding initiative at the soccer field. Rain sensor technology was incorporated into the design. Design documents are being completed to alter an older surface parking lot in order to improve the treatment of runoff water from a water quality perspective and to better accommodate the retention of this water, within the campus boundaries.

- **Water Conservation**

The energy conservation plans as presented are being adhered to.

- **Using Coal Combustion Products**

The use of coal based combustion products continues to be under review.

- **Toner and Ink Recycling**

The Central Stores Department continues to collect all expired or empty laser toner cartridges for the purpose of recycling. We are currently working with the University's Office of Procurement Services to identify a vendor who will pick up the cartridges and transport them to a recycling facility.

- **Proper Chemical Management**

We continue to manage our laboratory chemical waste using ChemSW, pursuant to the MOU.

Should you have any questions or require elaboration on any of the aforementioned items, please feel free to contact me.

Thank you.

Sincerely,

*Gregory W. Bressler*

Gregory W. Bressler  
Vice President, University Facilities

Cc: Willard Gingerich, Provost  
Robert Prezant, Dean CSAM  
Nick Smith Sebasto  
Amy Ferdinand