

March 28, 2013

Mr. John Blunt
Toxics Reduction Specialist
Hazardous Waste and Toxics Reduction Program
Washington Department of Ecology
4601 N. Monroe Street
Spokane, WA 99205-1295

Dear Mr. Blunt,

Enclosed please find the Washington State University Pullman campus Environmental Management System annual report for calendar year 2012.

If you have any questions please do not hesitate to contact me at 509-335-9564 or via email at sampsonj@wsu.edu.

Sincerely,



Jason T. Sampson
Industrial Hygienist, Environmental Health and Safety

Enclosure

Cc: (via email with enclosure)

Gary Coyle, Director, Dining Services
Rick Finch, Manager, Facilities Operations Waste Management
Patty Gropp, Associate Director, Purchasing Services
Dwight Hagihara, Executive Director, Environmental Health and Safety
Marty O'Malley, Industrial Hygienist, Environmental Health and Safety
Gene Patterson, Public Health Manager, Environmental Health and Safety
Terry Ryan, Director of Energy Services, Facilities Operations
Jeff Lannigan, Project Manager, Capital Planning and Development
Bridgette Brady, Director, Transportation Services

**Washington State University - Pullman
Environmental Management System
Annual Report for Calendar Year 2012**

- 1. A statement indicating the time period covered by the report.**

January 1, 2012 through December 31, 2012

- 2. A statement which indicates that the EMS elements described in the original application are still operative. The facility should indicate that an assessment of these elements has been completed, and describe the results of the assessment.**

All elements of Washington State University's Environmental Management System described in the original application remain operative. However, WSU has decided to add Transportation as an element and opportunity to reduce WSU's greenhouse gas emissions.

- 3. A description of any significant changes in the EMS elements, or any relevant changes to the overall EMS of the facility.**

Transportation has been added as an EMS element.

- 4. Report on progress towards objectives and targets, including any problems encountered. When possible, include or reference quantitative data on hazardous substance and hazardous waste reduction, air or water pollutant reduction.**

See below.

WATER

Objective 1: Improve stormwater management on campus

- Target 1 partially met.
 - Target 1: Maintain and improve the water quality, stormwater, and public outreach websites (<http://ehs.wsu.edu/ph/StormwaterManagement.html>). The website was maintained, continuously monitoring links and ensuring information is accurate. No improvements were made in 2012, but it is a goal in 2013 to make the website more accessible and easier for staff, faculty, students and visitors to navigate.
- Target 2 was met.
 - Target 2: Install Low Impact Development (LID) at new facilities.

- Two stormwater detention areas were constructed at Northside Residence and Mooberry Track
- The recently constructed Paul G. Allen Center for Global Animal Health included several experimental LID features including permeable concrete and asphalt and bioswales. The LID features will be evaluated to determine effectiveness and feasibility for use in future projects.
- Veterinary Teaching Hospital installed turf grass in the pet area to eliminate pollution from pet urine and feces.
- Bioswales were constructed along the Columbia Street parking lots.
- A section of pervious concrete side walk was constructed on Spokane Street

AIR

Objective 1: Continue to develop greenhouse gas reduction strategies

- Target 1 was met.
 - Target 1: WSU submitted a greenhouse gas emissions inventory to the American College and University Presidents Climate Commitment.
- Target 2 was met.
 - Target 2: WSU submitted an update to the existing Climate Action Plan to the American College and University Presidents Climate Commitment.
- Target 3 was partially met.
 - Target 3: Maintain and improve the air quality website. The website (<http://ehs.wsu.edu/ph/AirPollution.html>) was maintained and monitored to ensure the information is accurate. No navigation improvements were made to the website in 2012, but it is a goal in 2013 to make the website more accessible and easier for staff, faculty, students and visitors to navigate.

HAZARDOUS MATERIALS

Objective 1: Investigate used oil collection system upgrades

- Target 1 was met
 - Baker Commodities installed three tanks at Southside Cafe, Northside Café, and the Compton Union Building for used cooking oil collection. Due to the volumes at Hillside Café and Central Processing portable caddies we be used to collect oil and contractor will pump oil directly from caddy. Caddies are used at all locations to safely pump oil from

fryer and to more safely transfer (used for storage at smaller facilities) to the storage tanks with fewer spills and releases.

Objective 2: Evaluate Universal Waste streams for on-site recycling opportunities

- Target 1 was met.
 - Surplus Stores employees disassembled computer printers to determine if the individual components could be recycled in a more cost effective manner. It was determined the cost of shipping printers for recycling under the approved state contract was less expensive than the labor costs for WSU to disassemble and manage internally.

FACILITY DESIGN, CONSTRUCTION AND MAINTENANCE

Objective 1: Continue supporting green/sustainable facility design, construction and maintenance activities on campus.

- Target 1: Student Cougar Green Fund project
 - Target 1 was met.
 - First Student Cougar Green Fund project is the rehabilitation of amphibian habitat in the Arboretum and Wildlife Conservation Center. The project is scheduled to be completed June 30, 2013.
- Target 2: Construct new facilities to Silver LEED standards
 - Target 2 was met.
 - Construction of the Northside Residence Hall began in March 12, 2012. Building will be certifying LEED Silver following the scheduled completion in July, 2013.
 - Construction of Duncan Dunn and Community Hall Renovations and Addition were completed on July 1, 2012 to LEED Silver standards. The paperwork for the LEED Silver certification is in the process of being completed.
 - Construction of Veterinary Medical Research Building is scheduled to be completed on June 30, 2013 to LEED Silver standards. Building will begin LEED certification following the scheduled completion in June, 2013.
- Target 3: Begin LEED Silver Certification process for the Paul G. Allen Global Animal Health building
 - Target 3 was met.
 - Paperwork has been submitted and WSU is waiting for a LEED certified auditor to verify documentation and facility.

FOOD

Objective 1: Continue to create stronger partnerships with local farmers and businesses

- Target 1 met.
 - Target 1: Worked with primary food vendor (Food Services of America) to identify a local source of split peas and barley. Columbia Grain Growers identified as a source within 250 miles of WSU.

Objective 2: Continue to look for partnerships opportunities within WSU community

- Target 1 met.
 - Target 1: Educate students by establishing a monthly display showing students how to cook healthy meals.

ENERGY

Objective 1: Continue to identify and implement energy use avoidance projects

- Target 1 was partially met. The equipment and system is physically installed and tested. Third party contractors, Battelle and Avista, are in the final programming stages and the overall project will be active by June, 2013.
 - Implement Heating Ventilation Air Conditioning (HVAC) Load Sheds and Integral Volt-Var Control measures as part of the Energy Services Performance Contracting (ESPC) Phase 13.6 Smart Grid Demonstration Project to reduce annual energy use by 1,390,897 kWh of electricity and 7,041 therms of natural gas.
- Target 2 was met.
 - Install new energy saving air handling system in Sloan Hall with the ESPC Phase 13.7 Sloan Hall HVAC Restoration Part 2 project to reduce annual energy use by 331,600 kWh of electricity and 2,217 k-lbs of steam.
- Target 3 was partially met. In-Vessel Composter installation will be completed by May, 2013 and testing will follow. The system should be operational by July, 2013.
 - Install an In-Vessel Composter at the compost facility on the ESPC Phase 1.23 IVC project to reduce annual Incinerator energy use by 16,365 kWh of electricity and 24,386 therms of natural gas.

WASTE MANAGEMENT

Objective 1: Continue to increase diversion of solid waste streams to compost

- Target 1: Begin construction of in-vessel composting facility with grant money received from the State Commerce Department. Vessel will be installed utilizing an existing building at the compost facility.
 - Target 1 was partially met. In-Vessel Composter installation will be completed by May, 2013 and testing will follow. The system should be operational by July, 2013.

Objective 2: Continue to promote recycling to reduce amount of solid waste going to landfill.

- Target 1: Set up a recycling program with the Athletic Department and Beasley Coliseum to encourage recycling at WSU sporting events. Continue to encourage recycling at RV lots during WSU home sporting events.
 - Target 1 was partially met. Due to the construction timeline of the Martin Stadium improvements recycling efforts within the stadium were limited by the number recycling bins. Recycling bins were placed at all RV lots to encourage recycling. However, success was minimized because of recycling waste streams were contaminated with other materials.
- Target 2: Create and promote Facebook page promoting recycling and surplus equipment sales.
 - Target 2 was partially met. A Facebook page was created for surplus equipment auctions and weekly sales.

PROCUREMENT

Objective 1: Continue to promote green purchasing

- Target 1 was met
 - Target 1: Increase the purchase of remanufactured ink and toner cartridges from the preferred provider of office supplies by 10% in 2012. The Office Depot website for WSU was programmed to automatically prompt the choice of “greener” products in 2012. There was an increase of 28% in number of remanufactured toner cartridges purchased in 2012. In addition, toner cartridges with some recycled content are offered by Office Depot and purchases of these products increased significantly by 34% in 2012.
- Target 2 was partially met.
 - Target 2: Develop strategy and plan for collection of data around green purchasing with five major suppliers. Vendor transaction reports will provide data needed. Eight major suppliers were contacted to provide data around green products purchased by WSU. Only one was able to provide reports of green spend.

Office Depot (contract supplier for office products): a comprehensive Green Purchasing Business Review and other supporting transaction data were provided from which we can begin following trends of green purchasing in the office products category on an annual basis, and learn of untapped opportunities to increase green purchasing in the category. 40% of the 2012 office products expenditures of \$1,578,307 were products containing recycled materials, an increase of 28% (measured as the percentage increase in number of green product units purchased in 2011 compared to 2012).

Objectives and Targets for 2013:

WATER

Objective 1: Improve stormwater management on campus

- Target 1: Maintain and improve the water quality and stormwater websites.
- Target 2: Improve catchment basins to improve stormwater pollution controls at McCoy Hall, Bustad Hall, and Veterinary Teaching Hospital.
- Target 3: Add Wegner Hall vivarium and miscellaneous equipment currently served by independent cooling tower into the chilled water loop as part of ESPC Phase 2.11. The project will reduce annual water use by 250,000 gallons.

AIR

Objective 1: Continue to develop greenhouse gas reduction strategies

- Target 1: Evaluate the use of alternate fuels for WSU campus fleet.
- Target 2: Reduce air emissions by evaluating feasibility of additional air pollution controls on pathological incinerator.
- Target 3: Maintain and improve the air quality website.

HAZARDOUS MATERIALS

Objective 1: Find alternatives for disposal of hazardous materials

- Target 1: Improve chemical recycling program by developing website and public awareness.
- Target 2: Evaluate recycling outlets for aluminum canisters contaminated with trace metals during laboratory research.

FACILITY DESIGN, CONSTRUCTION AND MAINTENANCE

Objective 1: Continue supporting green/sustainable facility design, construction and maintenance activities on campus.

- Target 1: Construct new facilities to Gold LEED standards
 - Clean Technology Laboratory Building
- Target 2: Construct new facilities to Silver LEED standards
 - WSU's Visitor Center
 - Chief Joseph Apartment Building
- Target 3: LEED Silver certification process
 - Obtain LEED Silver Certification for Paul G. Allen Global Animal Health building and Duncan Dunn and Community Hall Renovations and Addition
 - Submit paperwork to begin Silver LEED Certification
 - Northside Residence Hall
 - Veterinary Medical Research Building
- Target 4: Develop and implement green design standards
 - Installation of water bottle fill stations on water fountains.
 - Include infrastructure for green bike station in new construction projects.

FOOD

Objective 1: Continue to create stronger partnerships with local farmers and businesses for food supply

- Target 1: Continue to work with primary food vendor (Food Services of America) to identify a local food sources.
- Target 2: Work with WSU Athletics to identify donations of local goods for the Cougar Athletic Training Table.

Objective 2: Increase nutritional and social wellbeing of food choices in the Dining Centers

- Target 1: Work with primary food vendor (Food Services of America) to identify gluten and allergen free products.
- Target 2: Work with primary food vendor (Food Services of America) to identify safe food sources for international students requesting ethnic food or food that meet religious dietary guidelines.
- Target 3: Develop a "Fresh Market" for students to purchase local meats and produce for cooking within the residence halls.
- Target 4: Continue to work with students on how to cook nutritional meals while using local ingredients.

ENERGY

Objective 1: Continue to identify and implement energy use avoidance projects

- Target 1: Add Wegner Hall vivarium and miscellaneous equipment currently served by independent cooling tower into the chilled water loop as part of ESPC Phase 2.11. The project will reduce annual energy use by 47,000 kWh.
- Target 2: Install upgrades to controls and lighting systems at Plant Growth system as part of ESPC Phase 4.4. The project will reduce annual energy use by 1,300,000 kWh of electricity and 1,800 therms of natural gas.
- Target 3: Lighting retrofits for growth chambers and other miscellaneous equipment as part of ESPC Phase 5.5. The project will reduce annual energy use by 333,000 kWh.

WASTE MANAGEMENT

Objective 1: Continue to promote recycling to reduce amount of waste going to landfill.

- Target 1: Improve recycling programs with the Athletic Department and Beasley Coliseum to encourage recycling at WSU sporting events. Continue to encourage recycling at RV lots during WSU home sporting events.
- Target 2: Engage and educate student organizations to assist with events recycling.
- Target 3: Create Facebook page promoting recycling.

PROCUREMENT

Objective 1: Continue to promote green purchasing practices

- Target 1: Promote green purchasing of office products; particularly ink and toner. Sustainable purchasing of these products can yield significant savings as well. Provide some sustainable purchasing recommendation at www.purchasing.wsu.edu Identify other suppliers to engage in promoting sustainable products to departments.
- Target 2: Identify two additional opportunities for increasing green purchasing practices from data provided by key suppliers or third party.

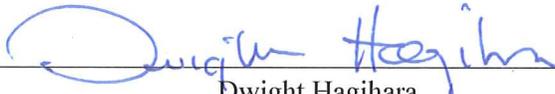
TRANSPORTATION

Objective 1: Continue to evaluate and develop alternate transportation options

- Target 1: Complete the evaluation and developmental stages of a bike and pedestrian plan

- Target 2: Develop and complete a modal survey for students, faculty and staff.
- Target 3: Expand marketing and outreach plans for the car sharing program, Zipcar, to increase use by 5%

Management Signature and Date



Dwight Hagihara

3-28-13

Date

Executive Director, Environmental Health, Safety and Risk Management Services