Transtitioning from Traditional to Sustainable Grounds Maintenance



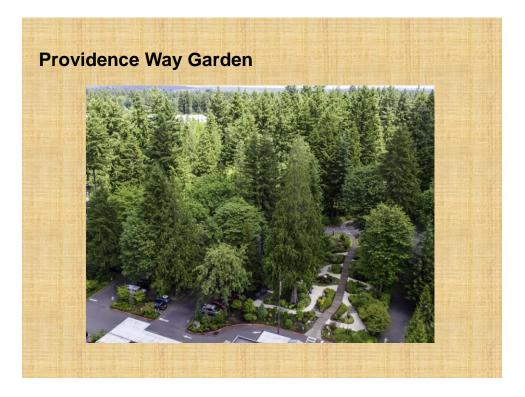
Providence St. Peter Hospital Olympia, Washington

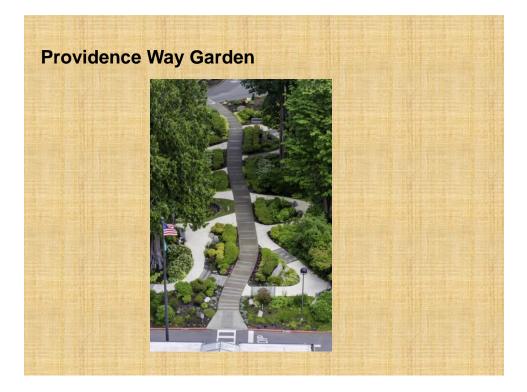
Gary Davis, Owner of Bayview Landscape and Design Keith Edgerton, Sustainability Coordinator, Providence St. Peter Hospital

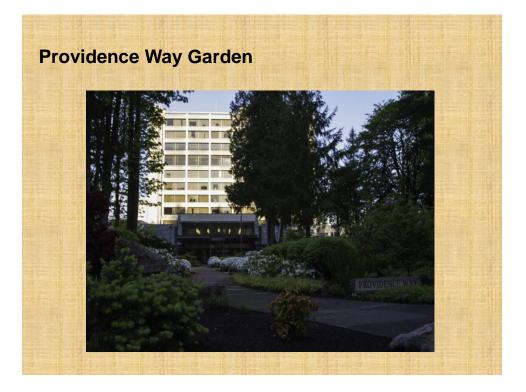


Providence St. Peter Hospital Gardens

Providence Way Garden The Critical Care / Surgery Waiting Area Garden The Healing Garden The Emergency Room Garden The Emilie Gamelin Pavilion Garden













How we save money and be sustainable

- Irrigation- Saved money, add slide from LOTT
 - Native drought resistant plants
 - Water audit by Howard Stenn through the City of Olympia
 Paid up to \$1000 for water saving heads and controllers
- More Costly to hand weed instead of pesticides
 - No difference in reduction of invasive species from hand weeding to use of chemicals.
- Addition of a New Green Roof
 - We save money by adding a longer life to the existing roof.
 - We also save money by better insulating the building (reduction in energy use)
 - This has been so successful we have plans to add a 3000SF garden on our 3rd
 Floor that will have a pathway and seating area for all patients in our Patient
 Tower.

How we save money and be sustainable continued....

Onsite Composting

- Saved money by not buying new compost material or to have yard debris hauled away.
 - Delivered Compost = \$35 CuYd : Annual Savings for Onsite Composting = \$2100
 - Haul Away Yard Waste = \$85 CuYd : Annual Savings for Onsite Composting = \$5100

 **Assume we have delivered 60 yards of Compost and 60 yards hauled off
- Reduction in grass-less watering

Electric Vehicle

- 160 days of use X 2 miles a day X \$3.50 a gallon of gas = \$1120 saved a year.
- No maintenance costs (oil change, engine maintenance)- Approx. \$100 a year
- Vehicle Cost = \$25k ROI = 20 Years
- Battery in the winter is an issue
- Tree removal- saves on car damage. Plant new trees
- Reducing costs while continuing to beautify our campus.
 - We have **expanded** the amount of plants on the property while **reducing** the amount of water used annually. Show 1998 total water use!

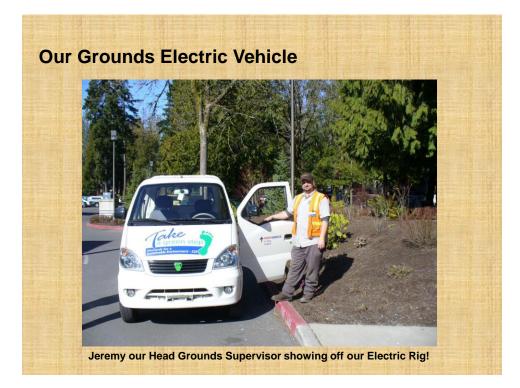
Providence St. Peter Hospital Irrigation Data

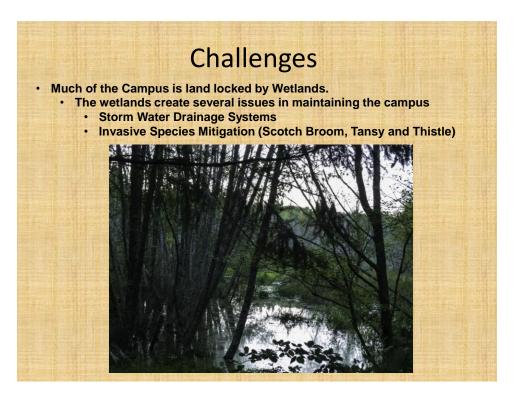
Acct/Location	2009	2010	2011	2012	2013
15624-28877	35,810	18,140	15,780	18,030	22,110
15624-31545	83,810	63,300	35,660	39,940	55,810
TOTAL CF:	119,620	81,440	51,440	57,970	77,920
TOTAL GALLONS	894,758	609,171	384,771	433,616	582,842
% Reduction		-32%	-57%	-52%	-35%
Total Annual Rainfall (inches)	49	58	60	48	58
Increase in Annaul Rainfall		16%	18%	-1%	16%
July & August Total Rainfall	1.82	0.88	1.92	1.2	1.84*
*No recorded rainfall for July					

Pesticide & Herbicide Free Operations

Given the nature of our hospital as a healing environment as well as our proximity to a salmon rearing wetland, Providence St. Peter Hospital is committed to minimizing any toxic products used in our grounds maintenance program. As a result, weed killers are not allowed for use on the campus.

This policy is for the benefit of patients, visitors and staff to the campus but places a big burden for hand weeding on our grounds maintenance staff.







Vegetative Debris Management

- Compost Material consists of leaves, grass clippings, limbs and plant material We currently have 60 Cubic Yards of material



