

Marine Maintenance Report



Introduction

- Twelve unions, fifteen disciplines
- Services from skilled trades to project management, from safety training to purchasing and contract support
- Provide service to all Port divisions
- Currently 130 employees – 29 staff, 101 craft
- Properties cover fifteen miles – Shilshole Bay Marina to T117

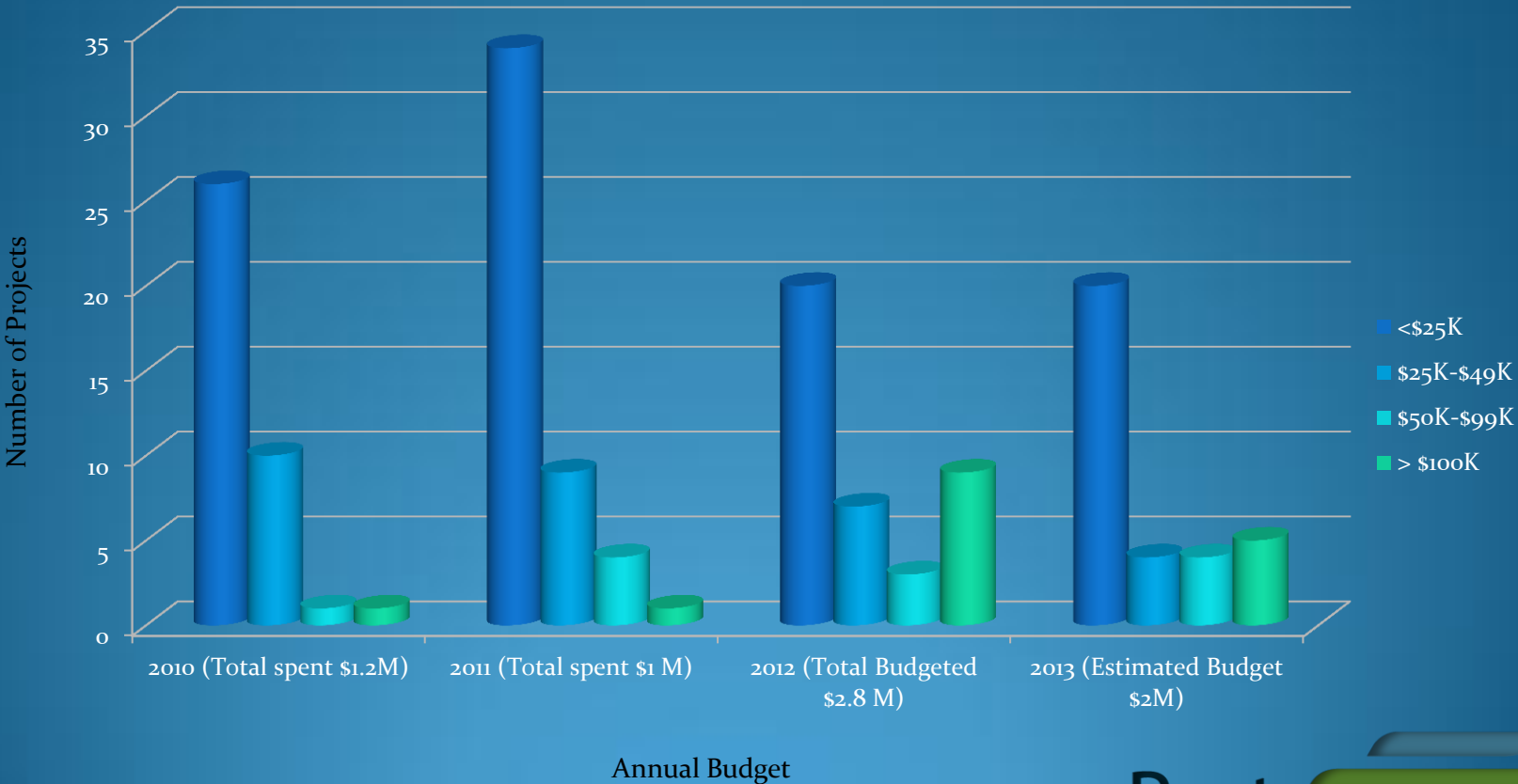
Deferred Maintenance Correction Program

- Commenced in 2010
- Completion in 2013

- 83 projects complete
- 49% related to regulatory compliance or sustainability

- Goal in future – Do not allow another list to build!

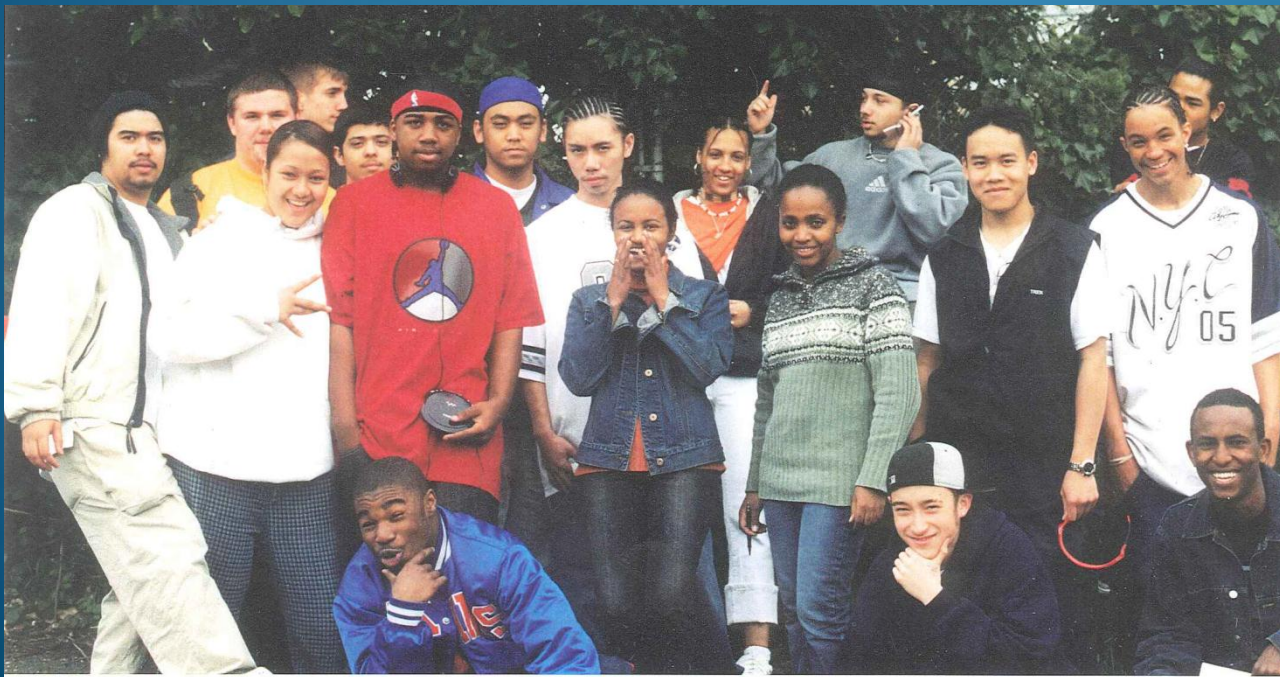
Deferred Maintenance



Community-Related Activities

Workforce Development

- Apprenticeships
- Career Work Exploration in Skilled Trades



Small Business Initiative

2012 YTD w/o Small or Public Works:	\$196,841	18.75%
2011:	\$384,465	15.18%
2010:	\$479,045	21.81%
2009:	\$727,084	27.50%

Greenishness

Regulatory & Environmental Programs

Mandates:

- Storm Water Management Program
- Fleet Management

MM Green Initiatives:

- Salmon Safe
- Enviro-Stars
- Recycling
- Green Purchasing
- Green Ideas
- Green Landscaping and Composting

Stormwater Compliance

Required by many laws:

- Clean Water Act
- National Pollutant Discharge Elimination System General Permits (NPDES)
 - Industrial
 - Municipal
- Seattle City Code
 - Director's Rules
 - More stringent than permit

Must have:

- Storm Water Pollution Prevention Plans
- Operations and Maintenance Manual



Significant changes
to work practices

**Only Rain in the
Drain!!!**

Best Management Practices



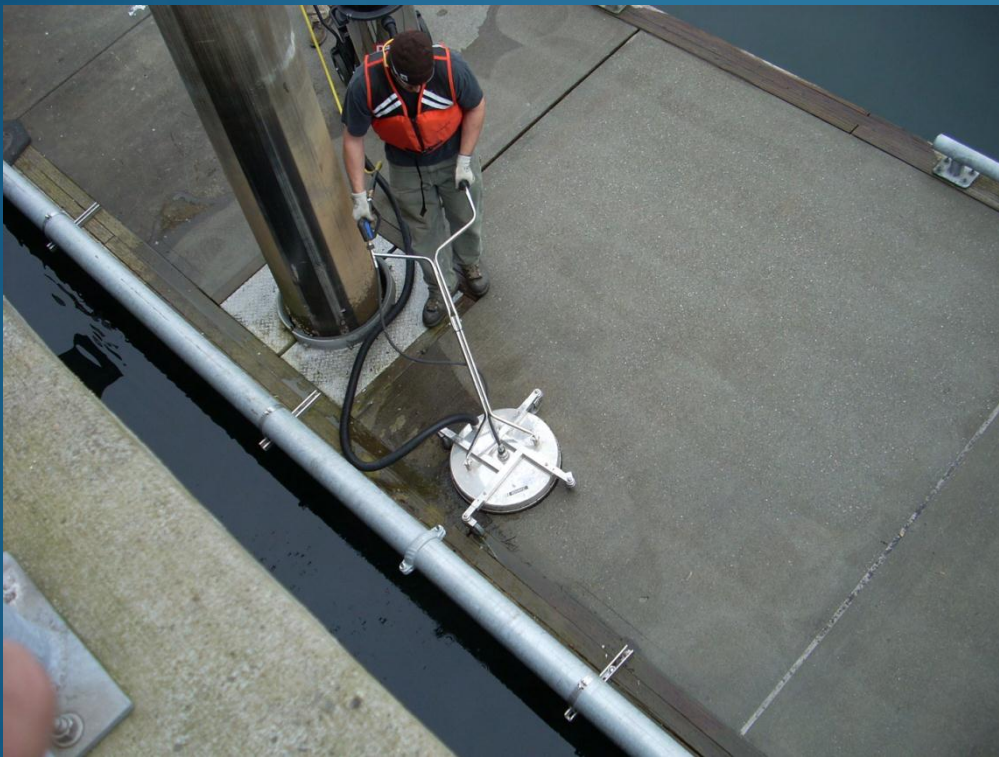
- Socks
- Catch Basin & Storm Filters
- Drain Covers
- Silt fencing
- Sweeping
- Wheel Washes
- Catch Basin Cleaning
- Inspections!

Inspections

- Catch Basins and Roofs Twice a year
- Every time we change the flow path
- Every time we clean/jet stormwater structures
- CB Inserts every six months
- Detention Vaults and Storm filters every three months



Inventions



Declared Best Management Practice by Washington Dept. of Ecology

Port/MM Green Fleet

	POS All	%	MM	%
Total Vehicles	617		106	17%
B20	33	5%	30	28%
CNG	88	14%	2	2%
Electric	1	0%	1	1%
Hybrid	37	6%	7	7%
Total Alternative Fuel	159	26%	40	38%

What We Recycle

Fluids – Antifreeze, Fuels (Diesel, Gasoline), Motor oil and lubricants

Filters – oil, fuel

Tires

All scrap metals – Aluminum, brass, bronze, copper, steel, tin, lead weights from tires

Propane tanks

Batteries- alkaline, lead acid, nickel cadmium, lithium ion, nickel metal hydride, vehicle batteries

Electrical and Electronic Equipment - Smoke detectors, vehicle mercury switches, computers, printers, TV's, Refrigeration Units, Microwaves

Lamps - HID, fluorescent, incandescent, high pressure sodium

Light ballasts - PCB & non-PCB

Organic material – Wood, Pallets, Plastic, Paper, Cardboard

Packaging materials - Bubble wrap, Shrink Wrap, Packing Peanuts

Toner cartridges

Glass

Trawl nets

Fire Extinguishers

Anything else we can!

Green Purchasing

- Use green products where possible
- Certain chemicals banned by our policy
- Chemical content and Material Safety Data Sheet (MSDS) verified and approved *before* purchase
- MSDS re-verified on receiving dock
- All products labeled “MSDS Verified”
- Job Hazard Analysis

Green Ideas

- Enzyme based parts washer
- Aqueous parts washer



Employee suggestions
build the program!

Employee Involvement

DUMPSTER ETIQUETTE *GONE WRONG!*



**IT'S REALLY QUITE SIMPLE:
DON'T TREAT RECYCLABLES AS GARBAGE
DON'T BRING YOUR CRAP FROM HOME**

- Education
 - Training
 - Posters
 - Dumpster diving
- Incentives for Ideas
 - Lunch with the boss
 - Hat, safety jacket, etc.

Hazardous Waste

- Marine Maintenance has achieved Small Quantity Generator classification!

We manage our waste, including that related to:

- Painting and cleaning supplies
- Automotive Maintenance
- Fire Extinguishers
- Aerosols
- Obsolete or expired products
- Wastes brought from other locations

Continuous Process Improvement

- Marine Maintenance – North Operations
 - Over \$360,000 savings in travel time in one year!
- Business Process Redesign
 - Automating many functions to save staff time
- Formal Planning & Scheduling
 - Reduce working on the fly – save costs overall
- Video Conferencing
 - Set up for use between MM Shop, North Operations and 69
 - Saving over 20 hours per month in travel on just one regular meeting
- Always seeking other opportunities for improvement

There Is No End!

- Any questions?