



**SELLWOOD BRIDGE**

**Project**

**MULTNOMAH COUNTY**

# **Board of County Commissioners**

**Briefing**

**February 26, 2013**

# Agenda

- Project Summary- Dashboard
- Project Diversity- Dashboard
- Sustainability Update
- Construction Update
- PI Update

### Schedule Milestones

	Estimated Completion	Status
- ODOT Audit	November	Awaiting results
- Bridge Translation	January	Complete
- East Side Railroad	February	On-going
- Maintenance IGA	April	On-going
- Permanent Easements	April	On-going
- Miles Place/Mac. Bay Design	May	On-going
- Project GMP	Sept	On-going

### Recent & Upcoming Meetings and Board Actions

- Final (SAS)/(ACT) Meeting	1/9/13
- Final Citizen's Advisory Committee Meeting (CAC)	2/11/13
- Board Diversity Reception	2/20/13
- BCC Briefing	2/26/13
- No March or May BCC Briefing	3/13 & 5/13
- BCC Briefing	4/23/13

### Public Involvement

Since January, 2012

- Final Community Advisory Committee meeting held Feb. 11
- Weekly construction meetings with condo reps
- PSU students bridge tour (1/30)
- Llewellyn Elementary School outreach (2/11, 2/15)

### Project Funding Plan (Proposed)

As of December, 2012

Target Project Cost	\$307.5M
Multnomah county VRF (Collected)	\$ 22,708,000
Multnomah County VRF (Bonded)	\$ 141,684,000
City of Portland	\$ 74,750,000
Oregon Jobs and Transportation Act	\$ 30,000,000
2012 Oregon Legislature	\$ 5,000,000
Federal funds carryover from planning	\$ 15,658,000
Federal TIGER III Act	\$ 17,700,000
<b>TOTAL</b>	<b>\$ 307,500,000</b>

### Stakeholder Issues

Since January, 2012

- County and contractor are working to address concerns from Bridge neighbor concerns about dust from January demolition and noise from deck joint at east end of bridge.

### Project Expenditures (post-ROD)

Thru December 31, 2012

ROW	\$ Spent	Status
	\$ 20,341,336	On Budget
<u>Design/pre-con.</u>	\$ 28,346,331	On Budget
<u>Construction</u>	\$ 34,322,362	On Budget
<b>Grand Total</b>	<b>\$ 83,010,029</b>	

<b>Social Equity</b>		Thru December, 2012		
A&E Team (Design) (Sep)	Goal	To Date	Status	
DBE	7%, (\$1.0m)	9.0%	Complete	
MWESB	13%, (\$1.8m)	14.9%	Complete	
CM/GC Contractor (Aug)	Goal	To Date	Status	
DBE (Committed)	4%	1.2%	Below Target	
DMWESB (Contracted)	20%	4.4%	Below Target	
Workforce <i>Women</i>	14%	12%	Trending up	
Diversity <i>Minority</i>	20%	30%	Above Target	

*Note: DMWESB goals/targets published Sept 2011 from CM/GC in subcontracting plan.*

**News Headlines**

- [New Sellwood Bridge drives students' learning \(PSU Vanguard\)](#)
- [Sellwood Bridge move leaves some unhappy residents in the dust \(Oregonian\)](#)
- [Sellwood Bridge, now its own detour, opens ahead of schedule \(Sellwood Bee\)](#)
- [Moving the Sellwood Bridge – How they did it \(Sellwood Bee\)](#)
- [Sellwood Bridge packs up and moves north \(Sellwood Bee\)](#)

**Sustainability**

- Project to be certified with Greenroads rating system (pioneers in Ongoing coordination with Greenroads staff)
- Continued waste reduction and reuse efforts
- Development of improved multi-use trail continues

**Design Accomplishments**

- Value engineering (VE) study refines cost-saving measures (Ramp Design)
- Advancement of design for interchange lighting, bridge electrical
- Traffic signal at 6th/Tacoma moves towards 60% design
- Refinement of final options for Miles Place/Macadam Bay

**Construction Accomplishments**

- Bridge translation
- Completion of Riverpark condos - phase one, & nearly complete Sellwood Harbor
- Prep work for west retaining walls, access roads, lighting, and stream diversion
- In-water work for east approach work bridge - access built
- Track removal, tree removal, and grade beam work for landslide stabilization



**Upcoming Site Work**

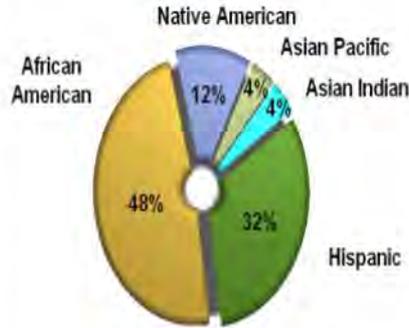
- Additional west side tree clearing
- In-water work for east approach work bridge - footings and columns
- Additional landslide stabilization work - grade beams, ground anchors, shear piles, and contaminated material removal (anticipated completion in April)
- Continued work for west retaining walls - access roads, stream diversion, and blasting to begin

# January 2013 Sellwood Small Business Dashboard

## Summary

- These charts are based on contracts and dollars awarded.
- The contractor's goal is to award 20% of total contract dollars to DMWESB firms. Currently, the DMWESB Contracted is 4.4% and the DMWESB Paid is 2%.

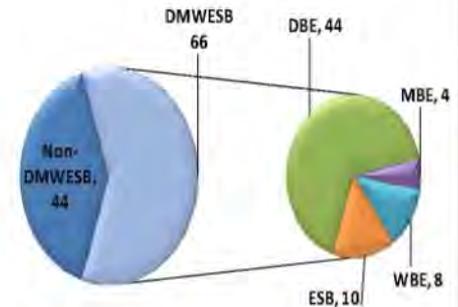
## DMWESB Ethnicity



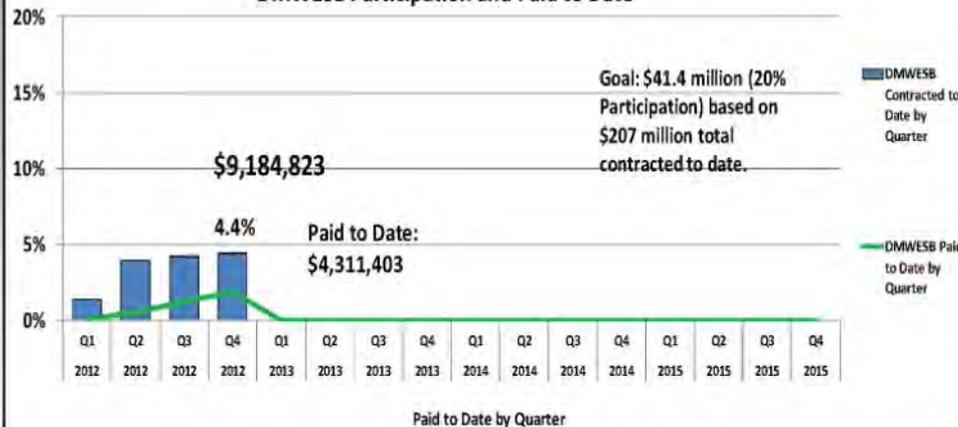
Based on number of contracts awarded.

## Total Contracts Awarded

Total Contracts - 110



## DMWESB Participation and Paid to Date

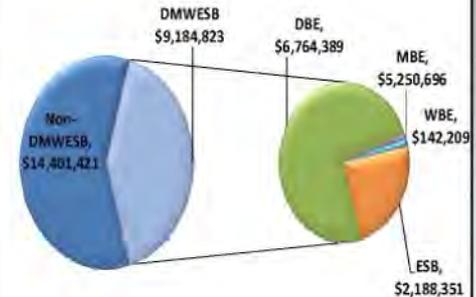


## Total Dollars Awarded

\$23,586,245

Total Project Contract Amount

\$207,492,563



Glossary: DBE—Disadvantaged Business, MBE—Minority-Owned Business, WBE—Women-Owned Business, ESB—Emerging Small Business

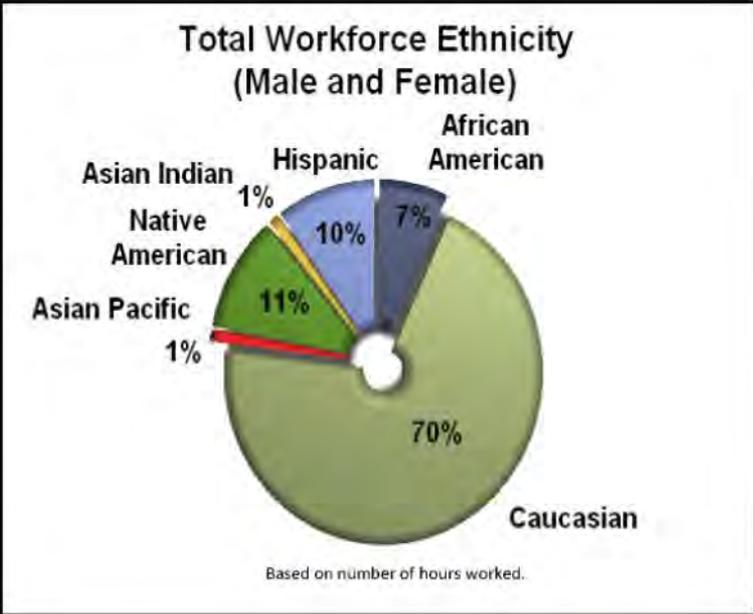
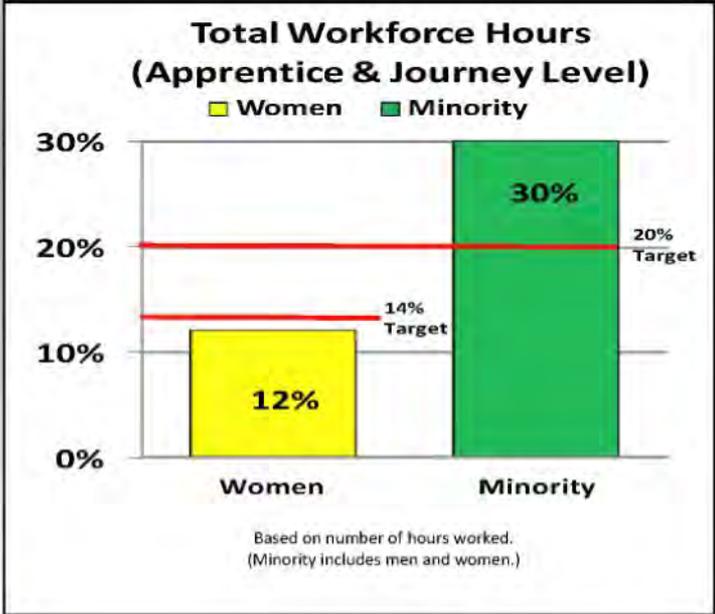


Cumulative Construction Data from 11/30/2011 to 12/31/2012. Produced by Group AGB, Ltd.



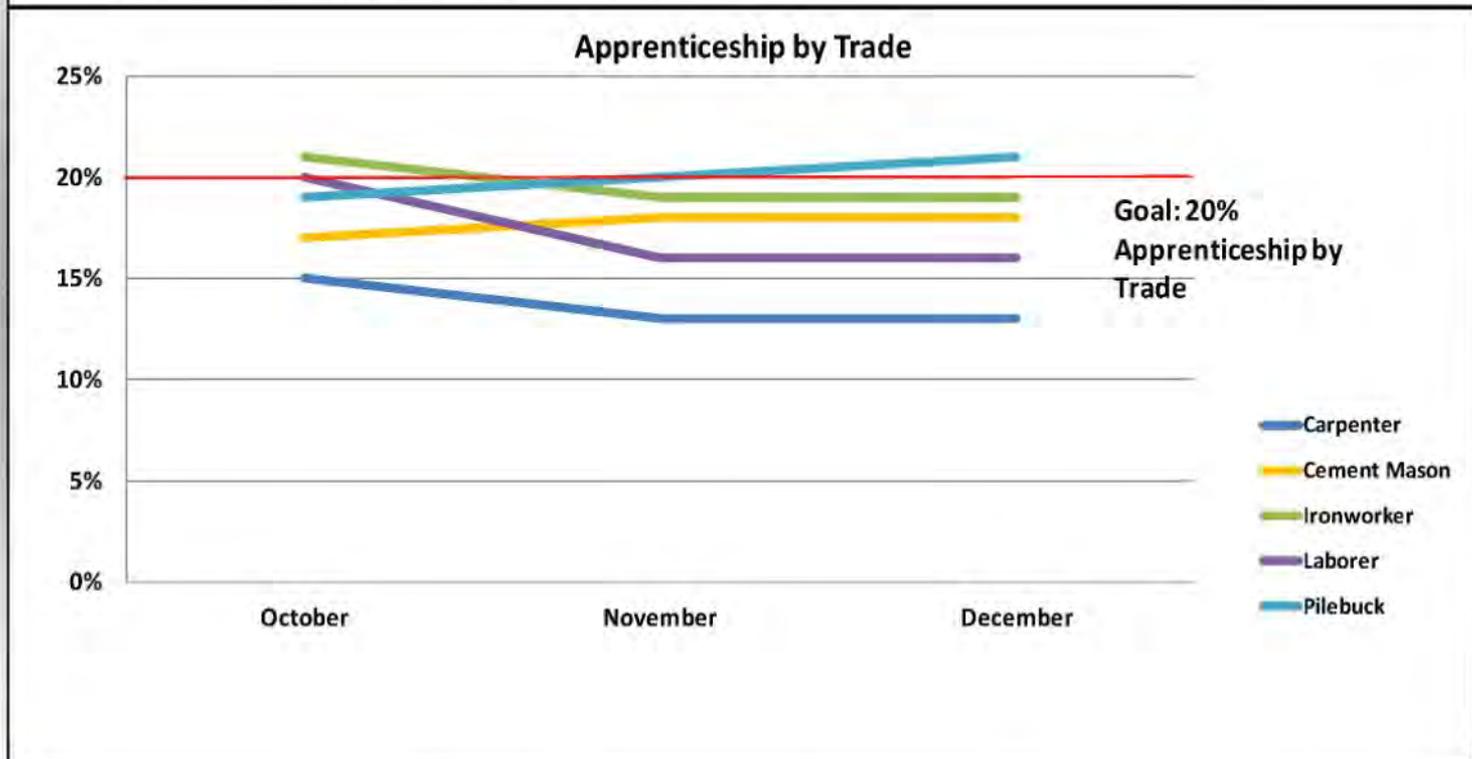
**Summary**

- Progress on meeting aspirational goals for minority and female participation. SSJV is exceeding the target for minorities. However, they are below target for women.



## Summary

- The following chart represents total apprenticeship hours by trade for all subcontractors working on the project. Any contractor over \$100K is required to achieve 20% apprenticeship hours by trade per the County's Workforce Training and Hiring Program.



This chart—Cumulative Construction Data from 11/30/2011 to 12/31/2012  
Produced by Group AGB, Ltd.



February 20, 2013



# DMWESB Reception

# Sellwood Bridge Replacement Project

## **SUSTAINABILITY**

LOOKING AHEAD:

Certification with Greenroads® Rating System

CURRENT ACTIONS:

Contracting: Where are the project dollars going?

REAR VIEW MIRROR:

Waste Reduction and Reuse

# Sellwood Bridge Replacement Project

# **SUSTAINABILITY**

LOOKING AHEAD: ACHIEVING CERTIFICATION  
The Greenroads<sup>®</sup> Rating System



# WHAT IS THE GREENROADS RATING SYSTEM?

A third-party certification process similar to LEED®

- Started in early 2011 (plus 5 years of pilot projects)
- Applies to new and reconstructed road and bridge projects
- Recognizes and quantifies roadway sustainability
- Awards points for sustainable practices
- Reviews and analyzes data/decisions generated as part of project
- Certification Levels:



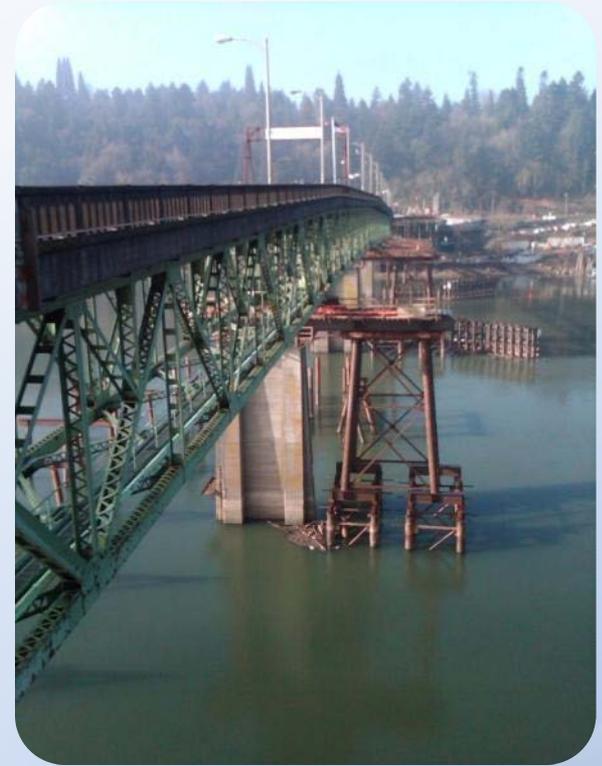
# SELLWOOD BRIDGE REPLACEMENT PROJECT

## Sellwood Bridge:

- First project to be registered in the State of Oregon
- Third major structure seeking certification by Greenroads
- Second largest project (in terms of budget) for Greenroads

Greenroads officially started certification of projects in 2011.

Over 30 projects currently being reviewed.

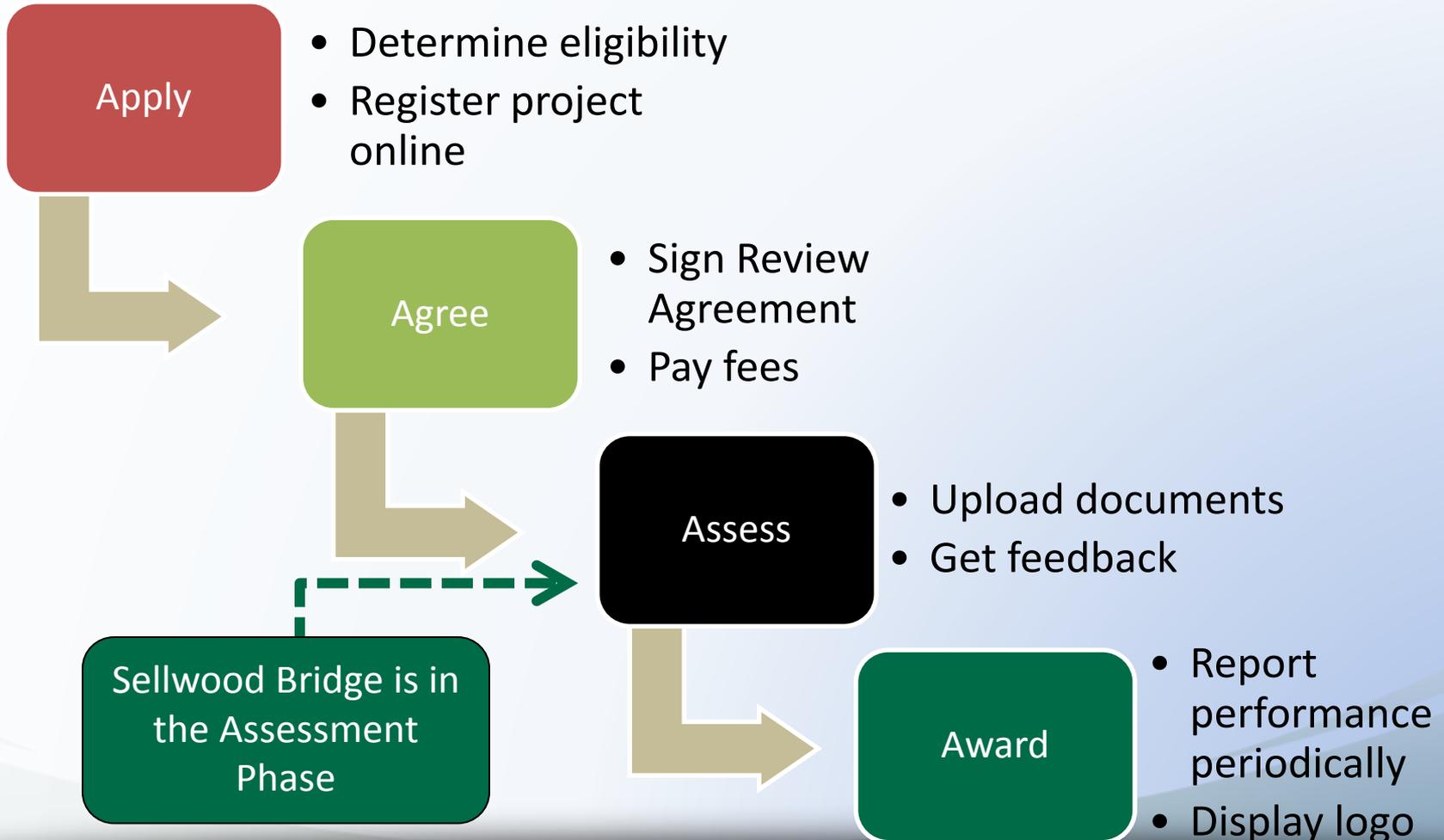




# GREENROADS CATEGORIES: VERSION 1.5

Category	Description	Points
<b>Project Requirements</b>	Minimum requirements for a Greenroad	Req.
<b>Voluntary Credits</b>		
<b>Environment &amp; Water</b>	Stormwater, habitat, vegetation	21
<b>Access &amp; Equity</b>	Modal access, culture, aesthetics, safety	30
<b>Construction Activities</b>	Construction equipment, processes, quality	14
<b>Materials &amp; Resources</b>	Material extraction, processing, transport	23
<b>Pavement Technology</b>	Pavement design, material use, function	20
	<b>Total Voluntary Credit Points</b>	<b>108</b>
<b>Custom Credits</b>	Write your own credit for approval	10
<b>Total Points</b>		<b>118</b>

# CERTIFICATION PROCESS



# Sellwood Bridge Replacement Project

## **SUSTAINABILITY**

### CURRENT ACTIONS:

Contracting: Where are the project dollars going?

# WORK FORCE: PROJECT DOLLARS AS OF 2-19-13

Distance from project	DMWESB*		Non-DMWESB*		TOTAL	
	SubContractors No.	Value	SubContractors No.	Value	Subcontractors No.	Value
0-10 miles	28	18.4M	26	\$27.1M	54	\$45.5M
10-15 miles	7	\$3.1M	9	\$34.2M	17	\$37.3M
Over 15 miles (within Oregon)	21	\$7.4M	10	\$8.4M	31	\$15.8M
Over 15 miles (outside of Oregon)	1	\$11.1M	16	\$16.9M	17	\$28.0M
<b>Total</b>	<b>57</b>	<b>\$40M</b>	<b>61</b>	<b>\$86.6M</b>	<b>118</b>	<b>\$126.6M</b>

\*DMWE: Disadvantage, Minority, Women, and/or Emerging Businesses

*Note: Of \$80M under contract to SSJV, approximately \$72M spent in Oregon and \$8M outside Oregon*

# Sellwood Bridge Replacement Project

## **SUSTAINABILITY**

REAR VIEW MIRROR:  
Waste Reduction and Reuse

# WASTE REDUCTION

Summary*	Amount	Units
Total Construction Waste To Date:	3174.34	tons
Trash To Date:	268.29	tons
Recycled Material To Date:	2906.05	tons
% of Material Recycled:	<b>92</b>	%

\*From the SSJV Waste Diversion Report (through 1/2013)

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## Notes:

- 4 tons of trash were hazardous material and could not be recycled.
- Local tribes were offered fallen trees for canoes, totems, and other uses.
- Building Demolition Recycling:
  - 88% of Mela building,
  - 98% of the Staff Jennings buildings, and
  - 94% Richardson buildings
- Source: (Konell Construction, Waste Management Report), managed/tracked by Multnomah County.

# WASTE REDUCTION CONT.

## Facilities Receiving Materials

- Environmental Fibers International (EFI)- Portland
  - Cardboard, plastic, aluminum, paper, etc. (co mingle)
  - Goal: help reduce landfill-bound material and limit the production of new material (cardboard, plastic, etc.)
- Foster/Suttle (Recology Oregon Material Recovery [ROMR])- Portland
  - Mixed construction debris (wood, metal, plastic, cardboard, concrete, etc.)
  - Goal: reduce landfill-bound waste and turn the materials into valuable resources while reducing pollution, saving energy, mitigating climate change

# WASTE REDUCTION CONT.

## Facilities Receiving Materials cont.

- Rivergate Scrap- Portland
  - Metals, aluminum, steel, copper
  - Goal: Recycle material for resale to limit the production of new material
- Metro Central (Recology Oregon Recovery [ROR]- Portland
  - Landfill-bound waste and mixed loads consisting of recycled material (co mingle and glass) and bulk items (hazardous household materials [chemicals, paints, etc.], appliances, electronics, etc.)
  - Landfill-bound waste's final destination and last chance to be recycled/recovered

# **Construction Update**

# Progress (thru 1/31/13)

	Detour Bridge	Land- slide	Condo. Mods.	Work Bridge	OR 43 Walls	Bridge & IntX	Total
Total Value	\$20.18	\$13.17	\$3.23	\$9.25	\$9.34	\$151.27	\$206.44
Paid to dt	\$20.10	\$9.70	\$2.74	\$2.64	\$0.00	\$2.06	\$37.24
	99.6%	73.7%	84.8%	28.5%	0.0%	1.4%	18.0%

Costs in millions

# Milestone Dates

- NTP – December 21, 2012
- Traffic on detour bridge – January 23, 2013
- Traffic on new span – May 14, 2015
- Bridge/interchange complete – June 6, 2016
- Contract end date – November 23, 2016



HS

**Jump Span**





# Facts and Figures

- Truss span –
  - 6.8 million pounds (3,400 tons)
  - 1095 feet long
  - 31 feet wide
  - 32 feet tall
- Lift – about 2-1/2 inches
- Sliding
  - 66 feet North at West End
  - 33 feet North at East End
  - Speed – 6 inches per 10 seconds (at fastest)
  - About 8 inches at a time
  - 7:30am to 9:30pm (14 hours)

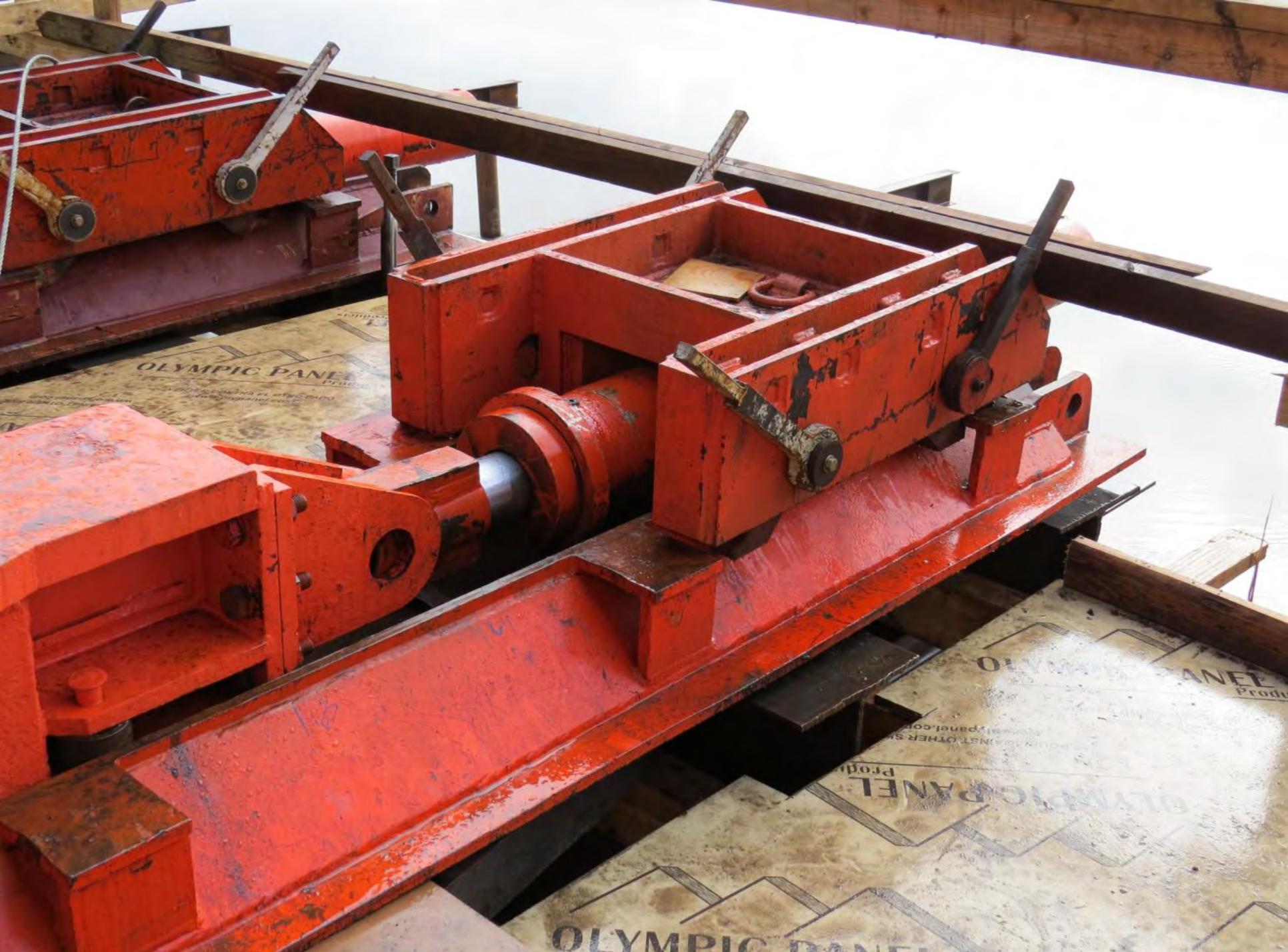
# Facts and Figures

- Horizontal sliding jacks –
  - 10 (5 pairs)
  - 165,000 lb capacity each
  - Using about 25% of capacity
- Lifting jacks –
  - 40 (4 at each bearing, 2 bearings/pier)
  - 330,000 lb capacity
  - Using about 65% of capacity
- Central proportionally controlled valves
- Hydraulic powerpack –
  - 135 horsepower
  - Up to 3,000 psi pressure



531A-4

21







**Laser  
& Other Monitoring**



GROVE

30

BELLWOOD BRIDGE

MEN BELOW  
PLEASE  
DONT THROW

WEIGHT  
LIMIT  
10  
TONS

STOP





BRIDGE  
CLOSED

OVER BRIDGE  
PLEASE  
DON'T TURN

RIGHT  
LANE  
IS  
CLOSED

GROVE



GROVE

SPEED  
LIMIT  
25

WILLAMETTE RIVER  
**SELLWOOD  
BRIDGE**  
BUILT AND MAINTAINED  
BY MULTICOUNTY SOCIETY

MEN BELOW  
PLEASE  
DON'T THROW

WEIGHT  
LIMIT  
10  
TONS



ON BRIDGE  
ROADWAY

Worker in high-visibility vest

Worker in dark uniform



GROVE

WILLAMETTE RIVER  
SELLWOOD  
BRIDGE  
REPAIR AND MAINTENANCE  
BY MULTNOMAH COUNTY

MEN BELOW  
PLEASE  
DON'T THROW

WEIGHT  
LIMIT  
10  
TONS



ON BRIDGE  
ROADWAY





GROVE

WILLAMETTE RIVER  
SELLWOOD  
BRIDGE

MEN BELOW  
PLEASE  
DONT THROW

WEIGHT  
LIMIT  
10  
TONS

ON BRIDGE  
ROADWAY





SUPPORTS UNDER  
SELLWOOD  
BRIDGE

MEN BELOW  
PLEASE  
DONT THROW

WEIGHT  
LIMIT  
10  
TONS

ON BRIDGE  
ROADWAY

BR  
G















**Open to Traffic**

# Work This Spring

- Access to work bridges
- Work bridge deck
- Removal of old in-river piers
- Start West OR 43 retaining walls
- Complete landslide stabilization
- Start in-river foundations



TRUCKS  
ENTERING  
ROAD

# PI Update

- Coverage of Bridge Move
- Close Proximity to Residences
- Final CAC Meeting (2/11/13)
- Miles Place Design Public Meeting (upcoming)



# Questions

[www.SellwoodBridge.org](http://www.SellwoodBridge.org)

