

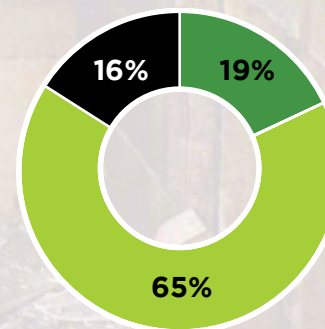
# DECONSTRUCTION

## CASE STUDY



RILEY PARK 1910 - 2018

**84% OF THIS BUILDING  
WAS SAVED FROM LANDFILL**



**REUSED**



**RECYCLED**



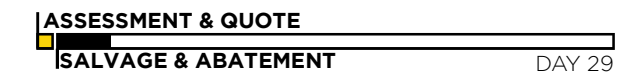
**DISPOSED**

The material chart excludes all recycled concrete.



STEPS OF DECONSTRUCTION

1 ASSESSMENT & QUOTE, SALVAGE & ABATEMENT



APPLIANCES,  
INTERIOR DOORS,  
CASINGS, TRIMS,  
BASEBOARDS

ASBESTOS



100%  
REUSED

SAFE ASBESTOS  
REMOVAL PROTECTS  
NEIGHBOR AND  
WORKERS HEALTH

CASE STUDY RILEY PARK

2 INTERIOR STRIPPING



8,544 kg  
**FLOORING**

Salvage rates:  
Floated: 99%  
Nailed: 88%  
Glued: 0%



85%  
REUSED

15%  
LANDFILL



5,100 kg  
**PLASTER**

+ RAW  
MATERIAL

NEW  
GYPSUM  
WALL  
BOARD

100%  
RECYCLED

3 EXTERIOR DECONSTRUCTION



24,120 kg  
**LUMBER**

Lumber shorter  
than 4' can only  
be recycled.



22%  
REUSED

74%  
WASTE TO ENERGY

4%  
LANDFILL

REUSE OF LUMBER

Most pre 1950 homes are built of old growth lumber, which has a high **ECONOMICAL AND HISTORICAL VALUE** and is often reused in interior design.



"The **lumber package** of this home **was particularly beautiful** as the original owner of this house **owned a saw mill.**"\* Some was reused in the Welcome Parlour ice cream shop in North Vancouver, creating a warm aesthetic and unique character.

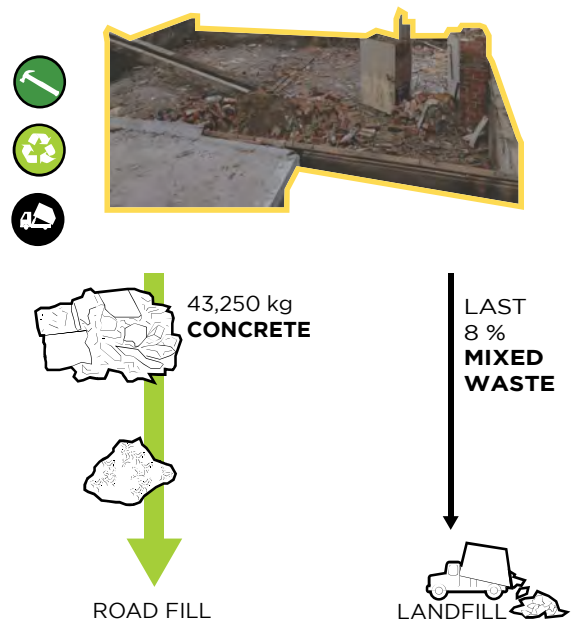
\* Quote Adam Corneil  
Photo Credit: Welcome Parlour



Photo Credit: Welcome Parlour

AFTER DECONSTRUCTION

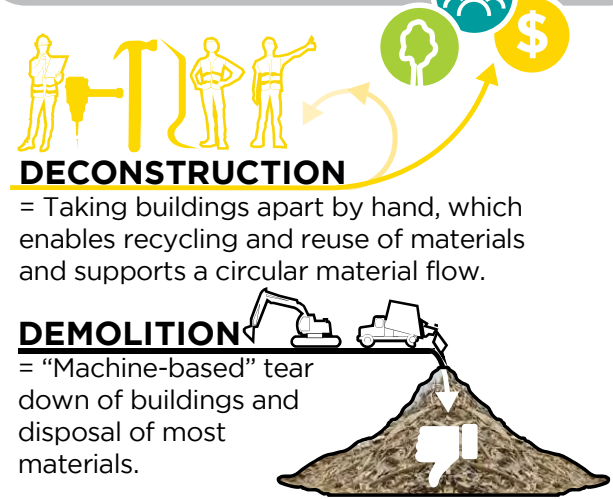
4 EXCAVATION & SITE CLEANING



DECONSTRUCTION ?

Deconstruction is done mostly by hand – a crew takes apart the building piece by piece. Some materials are salvaged for reuse, much is recycled, and only a small percentage goes to landfill. This reduces the environmental impact of house removal, supports the local economy and creates jobs in deconstruction, recycling, and creative upcycling industries.

Deconstruction has **ENVIRONMENTAL, SOCIAL AND ECONOMIC BENEFITS** over demolition.



BENEFITS

- ENVIRONMENTAL**
  - Zero Waste
  - Less Raw Material Production
  - Reduced Greenhouse Gas Emissions
  - Proper Handling of Hazardous Waste
  - Healthier Environment
- SOCIAL**
  - Additional Local Work
  - Preservation of History
  - Education & Research Potentials
- ECONOMIC**
  - Support of Local Economy
  - Cost Comparable to Demolition

**COST COMPARISON**

	Deconstruction	Demolition
House Removal	\$ 34,800	\$ 26,000
Tax credit for donation - of salvaged material*	\$ 22,600	\$ 0
<b>Total cost</b>	<b>\$ 12,200</b>	<b>\$ 26,000</b>

\*Tax receipt value: \$ 51,500.  
Exact tax credit value depends on income of person claiming the tax credit (typically 44-50% of receipt value).

**General Contractor:** Powers Construction  
**Deconstruction Contractor:** Unbuilders

HOW CAN YOU DO YOUR PART?

- HOME OWNERS**  
Consider deconstruction as alternative to demolition - it might be more cost effective.
- DESIGNERS**  
Support deconstruction by design with salvaged materials and designing for disassembly.
- CONTRACTORS**  
Support the deconstruction industry by diverting materials and incooperating salvaged products.

We are **PRESERVING HISTORY** by salvaging old growth lumber.

Salvaging materials **REDUCES** the **NEED FOR NEW MATERIALS**.

This reduces the impact on the land where new raw materials are extracted.

**OWNER**

Deconstruction **CREATES JOBS**, not only for the deconstruction company but also within the entire recycling sector.

We donate many materials to **Habitat for Humanity**, a non-profit organization. They issue a **TAX RECEIPT** that reduces the cost of deconstruction.

**CONTRACTOR**

Deconstruction allows us to **REMOVE HIDDEN HAZARDOUSE WASTE** that would otherwise end up in the landfill.