

**NWCCC
Distinguished Project Award**

Upper Clear Creek Mitigation Site (UCCMS)

October 26, 2016

BRUCE
DEES & 
ASSOCIATES



UCCMS Site Context



UPPER CLEAR CREEK SITE

PRE - PROJECT

February 24, 2014

HISTORIC
CLEAR CREEK
CHANNEL



UPPER CLEAR CREEK SITE
COMPLETION OF PHASE I
November 14, 2014





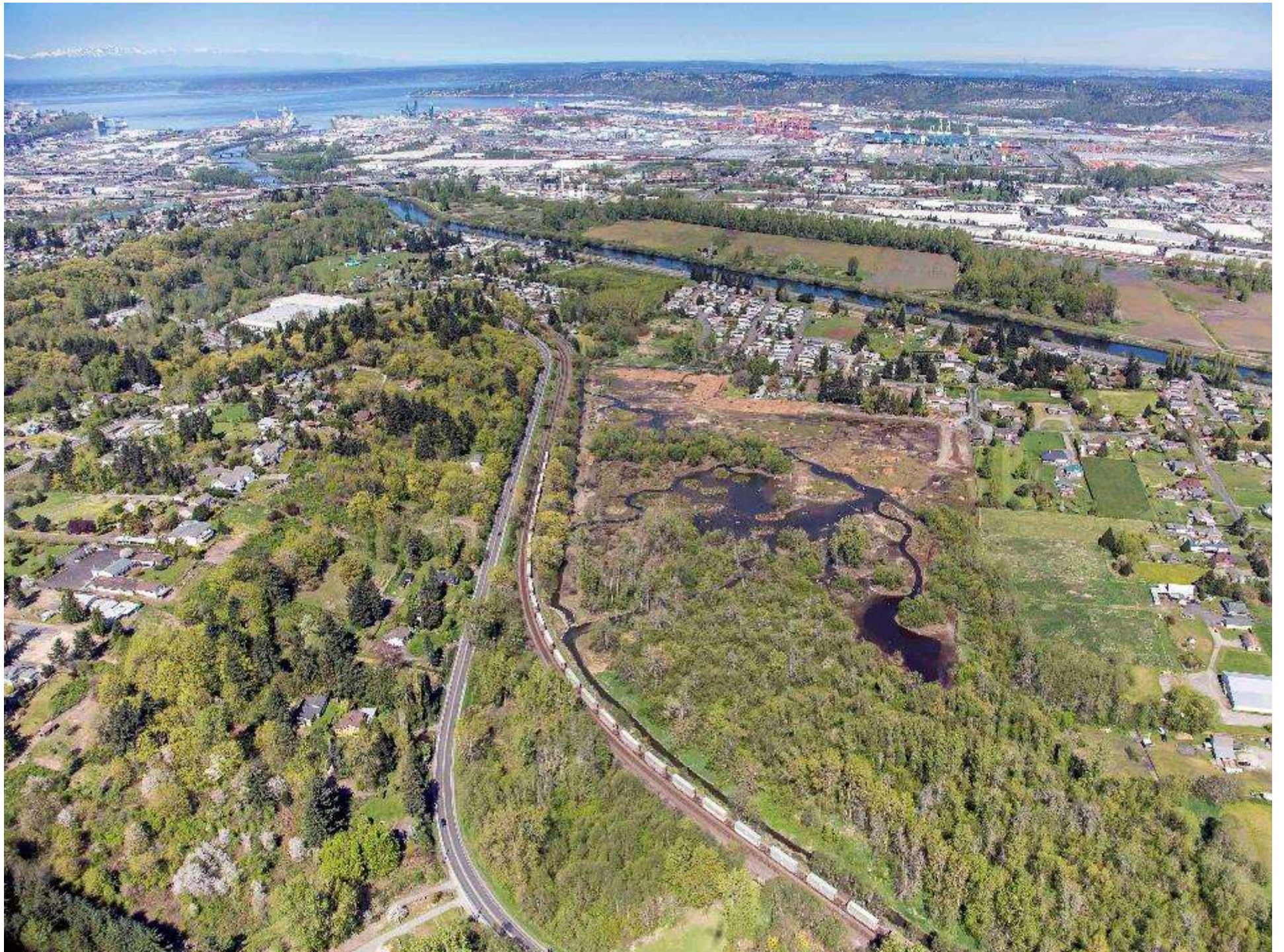
UPPER CLEAR CREEK SITE

NOVEMBER 2015 FLOOD EVENT

November 17, 2015

WATER SURFACE ELEVATION: 18.2'





Quick Facts



Creation of an Approximately **40-Acre Habitat Site**

INCLUDES:

- Wetland Re-establishment (Creation): ~7 Acres
- Wetland Rehabilitation: ~28 Acres
- Forested Riparian Buffer Enhancement: ~5 Acres

Over 145,000 Plants Planted in 6 Types of Plant Zones featuring 42 Plant Species and 2 Grass Seed Mixes



CREATIVE SOLUTIONS



PLANT TRANSPORT VIA HELICOPTER

Due to the site conditions, Upper Clear Creek's General Contractor, Active Construction, used a small helicopter to transport over 13,000 plants from the plant staging area to remote areas of the site.

FISH

THAT USE CLEAR CREEK

- Fall Chinook
- Winter Steelhead
- Bull Trout
- Coho
- Fall Chum
- Pink
- Cutthroat Trout
- Rainbow Trout
- Lamprey Eel

SITE STRUCTURES

- 4,600 Linear Feet of Channels
- 2 Floodplain Ponds
- 7 Microdepressions (swales)
- 15 Alcoves
- 52 Hummocks
- 22 Standing Snags
- 197 Large Woody Material Structures:
 - 2 Channel Deflector Structures
 - 48 Bank Roughening Structures
 - 7 Pool-forming Cobble Structures
 - 6 Mid-channel Roughening Structures
 - 7 Instream Meander Roughening Structures

Partnerships



UPPER CLEAR CREEK PROJECT

3714 Gay Road E, Tacoma

PROJECT TEAM:



PROJECT MANAGER:
David Myers
Port of Tacoma
(253) 428-8612



PROJECT DESIGNER:
Derrick Eborle
Bruce Dees & Associates
(253) 627-7947



PROJECT BIOLOGIST:
Kris Lepine
Herrera Environmental Consultants
(206) 441-9060

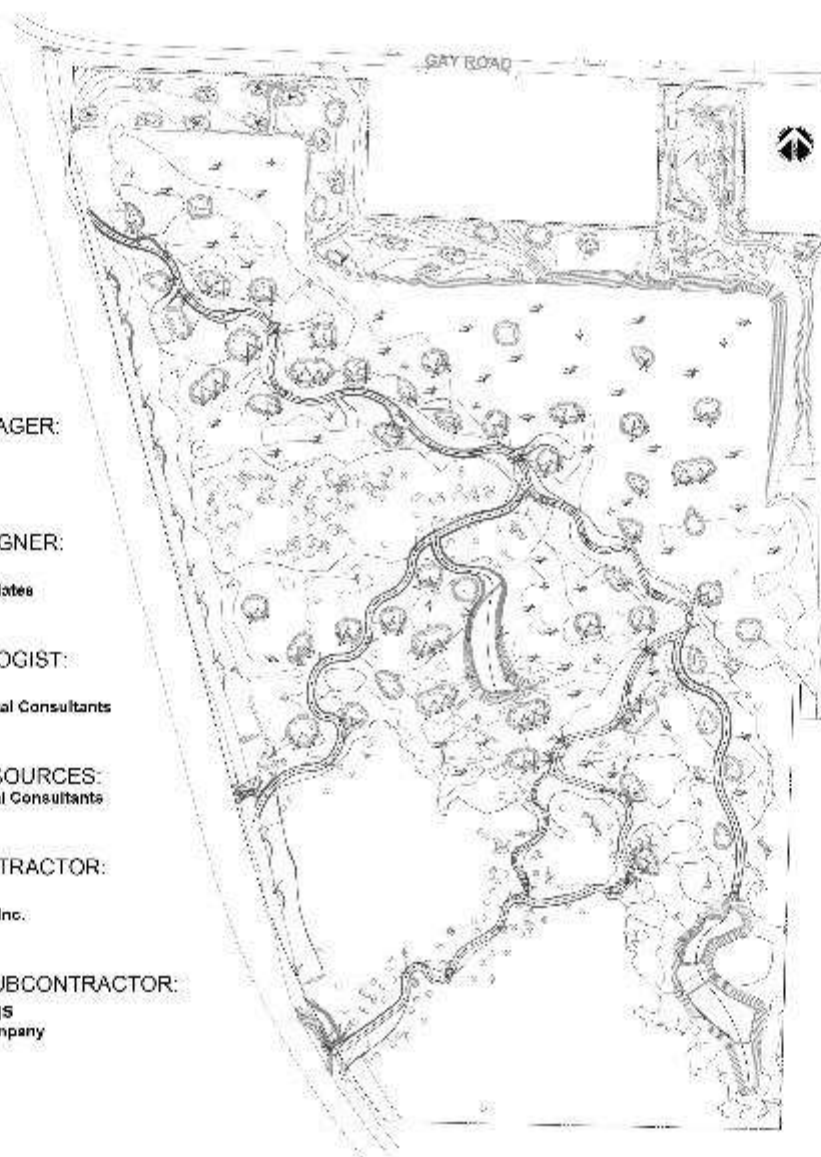


CULTURAL RESOURCES:
SWCA Environmental Consultants
(206) 781-1909



GENERAL CONTRACTOR:
Ryan Heathers
Active Construction Inc.
(253) 248-1091

LANDSCAPE SUBCONTRACTOR:
David Hemmings
Buckley Nursery Company
(253) 863-1645



ADDITIONAL PARTNERS:

