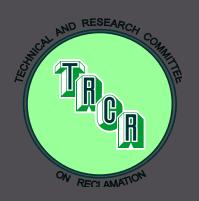
### 2009 MINE RECLAMATION AWARDS

Presented by

The British Columbia Technical and Research Committee on Reclamation



34<sup>th</sup> Annual Mine Reclamation Symposium

September 22, 2010 - Courtenay, BC

### 2008 B.C. JAKE MCDONALD MINE RECLAMATION AWARD

'Keeper Trophy Presentation'



#### **Highland Valley Copper**



#### **Highland Valley Copper**









Creation of Riparian and Aquatic Habitat

### 2008 B.C. JAKE MCDONALD MINE RECLAMATION AWARD

Teck Highland Valley Copper Partnership

for

Highland Valley Copper Mine

# 2009 ANNUAL RECLAMATION AWARDS



# 2009 MINERAL EXPLORATION CITATION



## 2009 MINERAL EXPLORATION CITATION

### Alpha Gold Corporation for Lustdust





2009 Drill pad reclamation





2010 Road reclamation



Re-establishment of small natural watercourses



Early re-seeding efforts



## 2009 MINERAL EXPLORATION CITATION

### Alpha Gold Corporation for Lustdust



### 2009 QUARRY CITATION



### 2009 QUARRY CITATION

CertainTeed Gypsum Canada Ltd.
for
Windermere Mining Operations



Elkhorn Quarry (2006)



Reclaimed waste dumps, no growth medium



Hydroseeding of waste rock dumps. Note islands of native vegetation.





Sediment control pond

Water quality monitoring

### 2009 QUARRY CITATION

CertainTeed Gypsum Canada Ltd.
for
Windermere Mining Operations

## 2009 COAL MINING CITATION



## 2009 COAL MINING CITATION

Teck Coal Limited for Elkview Operations





Hazards in Michel Creek, precleanup



Example of materials removed from Michel Creek



Streambank following construction (April 2004)

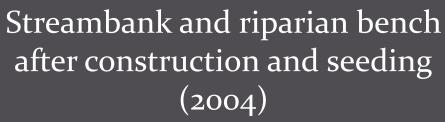


Successfully revegetated streambank (August, 2010)



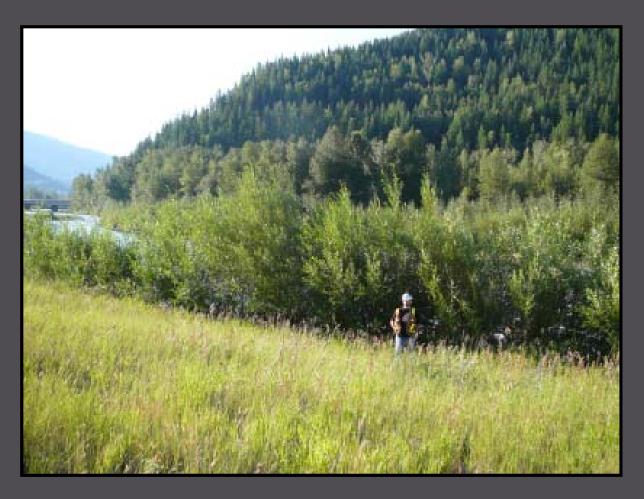
Red osier dogwood and willow brush layer (May 2004)







Successfully revegetated streambank and riparian bench (2010)



Willow growth 6 years after planting (August 2010)

# 2009 COAL MINING CITATION

Teck Coal Limited for Elkview Operations

## 2009 METAL MINING CITATION



# 2009 METAL MINING CITATION

Northgate Minerals Corporation for Kemess South Mine











Dam buttress surface, July 2010



Natural vegetation sites

Soil slinging

**Borrow 3 Reclamation** 





Loose and rough soil preparation

Native vegetation encroachment

**Borrow 7 Reclamation** 



Waste rock surface preparation and overburden placement (July, 2010)



Resloped waste rock dump with overburden placed (August 2010)

### **Kemess South**



Reclamation of Tailings Dam "Brown before Green"

# 2009 METAL MINING CITATION

Northgate Minerals Corporation for Kemess South Mine

# 2009 B.C. JAKE MCDONALD MINE RECLAMATION AWARD



# 2009 B.C. JAKE MCDONALD MINE RECLAMATION AWARD

Lehigh Materials for Sechelt Mine





Vegetated retaining berms block noise and improve visual aesthetics.



Biosolids and pulp sludge test plots



Biosolids application with manure spreader



Poplar plantation prior to reclamation (2004)

Poplar plantation (2009)



Poplar plantation, trees up to 13 m in height (July 2009)





Work experience and training programs are part of the reclamation program.





Biosolids sampling for quality control



Groundwater sampling near reclamation operations

# 2009 B.C. JAKE MCDONALD MINE RECLAMATION AWARD

Lehigh Materials for Sechelt Mine