Remediation of a Former Landfill in Species-at-Risk Habitat

Mark Slacke – Correctional Service Canada
Bradley Klaver – PWGSC
Lindsay Paterson – SLR Consulting (Canada) Ltd.
Outline

- Site History
- Environmental Findings
- Species-at-Risk Implications
- Remediation Program
- Post-Remediation Restoration Program
- On-going Work
Site History

Mountain Slough

Mountain

Kent

Mountain Slough
Site History
Environmental Findings

• Multiple media impacted above federal guidelines (2009-2012 investigations):
  – Soil – benzene, PHC F1-F3, PAHs, metals
  – Groundwater – benzene, toluene, ethylbenzene, PAHs, metals, nitrite
  – Sediment - PAHs, metals
  – Surface Water - metals

• Estimated 6490 m³ of contaminated soil and sediment, primarily related to landfill
Species-at-Risk Implications

- Draft CEAA Screening completed in 2011 in support of remedial planning identified SAR in vicinity of Site
- Primary SAR concern was excavation within proposed critical habitat of Oregon Spotted Frog
- CSC initiated discussions with multiple stakeholders
Species-at-Risk Implications

- CSC required to submit a permit for the remediation project under Sec. 73 of SARA due to the potential to affect a listed species and their critical habitat.

Score:
OSF 1, CSC 0
SARA Permit

• Set out conditions for the remediation project that were incorporated into the tender specifications, including:
  – Project timing/window (August 1 – Sept 15)
  – Wildlife fencing
  – Isolation of surface water in work area
  – Supervision and salvage by approved Environmental Monitors
  – Soil handling
Wildlife Fencing
Surface Water Isolation
Pre-Excavation Salvage
Wildlife Salvage
Soil Handling Requirements
Restoration
One Year Later…
On-Going Work

• Plant Survival Monitoring
• Invasive Species Management
• Surface Water Sampling
• Oviposition Surveys
• Critical Habitat Surveys
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