Grouping northern contaminated sites to promote sustainability initiatives

A holistic approach based on recent projects completed for PWGSC North of 60

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Agenda

1. The “Holistic” Concept
2. The Opportunity (FCSI)
3. NT Case Study
4. NU Case Study
5. Conclusion
A “Holistic” Approach

“relating to or concerned with wholes or with complete systems rather than with the analysis of, treatment of, or dissection into parts…”

Merriam-webster.com
Healthy Contaminated Sites Management

- Consider the “health” of federal contaminated sites management where sustainability initiatives could be directly linked to indicators of health – this has been tossed around already*

- Now consider the management of multiple sites from multiple custodians in a general geography in the north as opposed to looking at sites individually, thus a holistic view through a sustainability lens...

* Source: Value Proposition Document, FCSAP 2013
2 The Opportunity (NT)

In the NT, there are 75 Federal Managed Sites* where detailed testing is completed/RAP is under development

- 2 RCMP
- 3 EC
- 30 DFO
- 40 AANDC

* Source: FCSI Database, April 2013 update
Detailed Testing Completed/ RAP under development (75)*

* Source: FCSI Database, April 2013 update
FCSI Data* - Northwest Territories

Active Sites – Assessment Phase
- Initial testing completed. Detailed testing underway: 137
- Detailed testing completed. R/RM planned: 26
- Detailed testing completed. RAP under development: 75

Active Sites – R/RM Phase
- RAP completed. R/RM underway: 19
- R/RM completed. Confirmatory sampling underway: 8

Active Sites – Long-Term Monitoring Phase
- Confirmatory sampling completed. LTM underway: 10

TOTAL “Active” Sites in NT: 275

* Source: FCSI Database, April 2013 update
The Opportunity (NU)

In NU, there are 117 Federal Managed Sites* where initial testing is completed and detailed testing is underway:

- AANDC – 79
- DFO – 21
- DND – 11
- EC – 3
- NRCAN, RCMP, TC – 1 each

* Source: FCSI Database, April 2013 update
Initial Testing Completed/
Detailed Testing Underway (117)*

DFRP/FCSI - Map Navigator

Area: North America Content:

* Source: FCSI Database, April 2013 update
Active Sites – Assessment Phase
• Initial testing completed. Detailed testing underway: 117
• Detailed testing completed. R/RM planned: 8
• Detailed testing completed. RAP under development: 18

Active Sites – R/RM Phase
• RAP completed. R/RM underway: 36
• R/RM completed. Confirmatory sampling underway: 23

Active Sites – Long-Term Monitoring Phase
• Confirmatory sampling completed. LTM underway: 59

TOTAL “Active” Sites in NU: 261

* Source: FCSI Database, April 2013 update
Key Players/Issue

Key Players Include:
• Expeditors
  • Air Charters
  • Logistics (camps)
• Drillers
• Contractors
• Consultants
• First Nations/Inuit

Threats Include:
• Limited numbers of players north of 60
• political Land Claim areas and distribution of contracts
• FCSAP Rules (all class 1 and on-going class 2 sites are eligible for remediation funding and all sites are eligible for assessment funding)
• Sunset of FCSAP in 2020...
3 Case Study #1 – Bullmoose Mine Sites, NT

DFRP/FCSI - Map Navigator

Area: Northwest Territories, Great Slave Lake

Content:

- Pointe du Lac
- Wrigley Point
- Paresgian Point
- Redrock Point
- Alexander Point
- Price Point
- Dakier Point
- Sabourin Point
- Anderson Point
- Mirage Point
- Matonalbee Point
- Gypsum Point
- May Point
- Great Slave Lake

Guide

Scale: 1:868,384
Latitude: 63.25289
Longitude: -110.49644

20 km

Treasury Board of Canada Secretariat | Maps by DEx GEOMATICS Inc.

Stantec
Current Initiatives from RAP

• One network of winter roads servicing all sites
• Consolidation of non-haz waste in 2 landfill and one landfarm (soils)
• Consolidation of haz waste for off-site disposal
• Upgrade of one airstrip for multiple site access
Other Opportunities/Concepts

- Creation of a centralized “federal” waste management site in proximity to Yellowknife
- Opportunities for consolidation of RA knowledge
- Consolidation of LTM strategies/execution
- Consider all sites in the area (from all custodians)
Case Study #2 – Complex ESAs in NU
Stantec Initiatives in 2013

• Central coordination of MSA Call-ups
• Common logistic hub (shipping supplies/personnel) for 2 large ESAs
• Coordination of air charter
  • Limited availability
  • Integrated “timings”
• Integrated Planning
  • H&S including devices (locators, comms, etc.)
  • Field supplies
Other Opportunities/ Concepts

• PWGSC “Hub” to Coordinate Geographically/ Temporally for **all custodians**
• Expeditor and Key Supplier PWGSC MSAs
  • Air Charter
  • Fuel
• Operational Role/Mandate for **Northern Interdepartmental WG** members
• Development of Best Practices for ESAs of Northern Sites
5 Conclusion

A Holistic Approach can result in significant “savings” and improve the overall “health” of Federal CS Management with sustainability indicators that can include:

- Cost Savings in the $M
- Reduction of the federal Carbon Footprint
- Improved Stakeholder Coordination/Consultation and Ultimately Buy-in
- Increased Interdepartmental Coordination with PWGSC as the lead
- Public Outreach/Good News Story
$14,924,628

FCSAP Assessment Expenditures in NU, NT, and YT
FY 2009/2011*

* Source: FCSAP Annual Report 2009-2011
Questions? / Thanks You!

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