

Fromme Mountain Trails Environmental Assessment

District of North Vancouver



Agenda

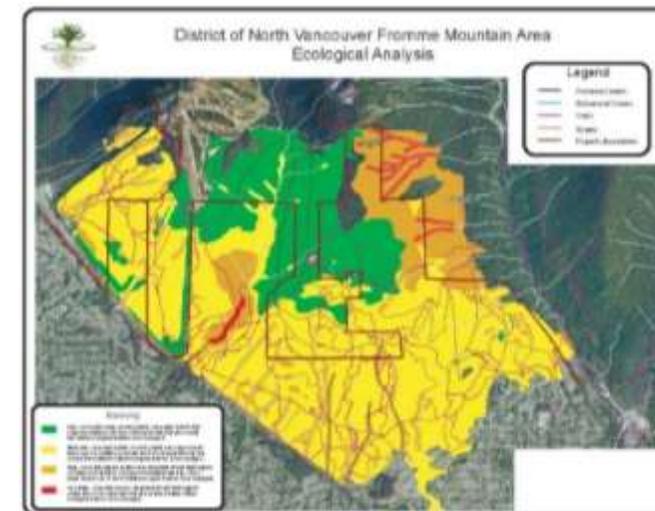
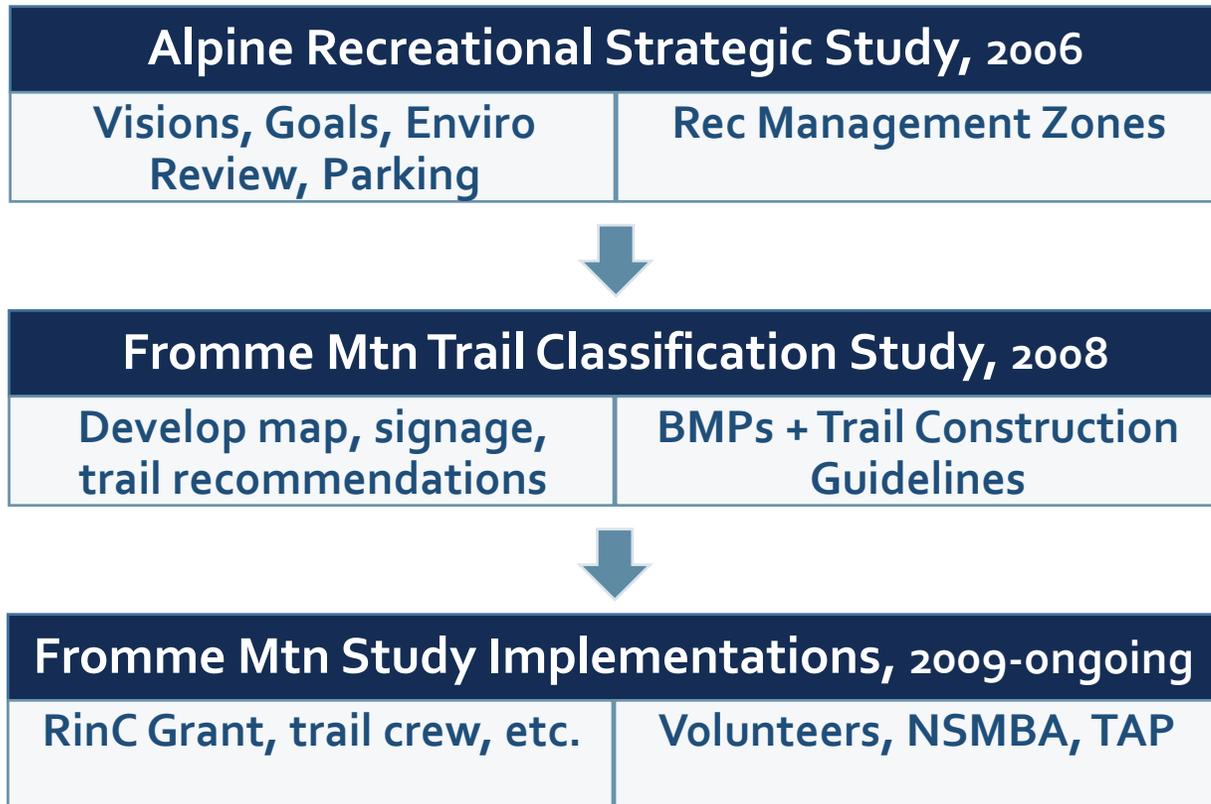
OVERVIEW Fromme Mountain Trail Classification Study (2008)

SUMMARY Fromme Mountain Trails Environmental Assessment (2015)

DISCUSSION 2015 work plan for Fromme Mountain

NEXT STEPS

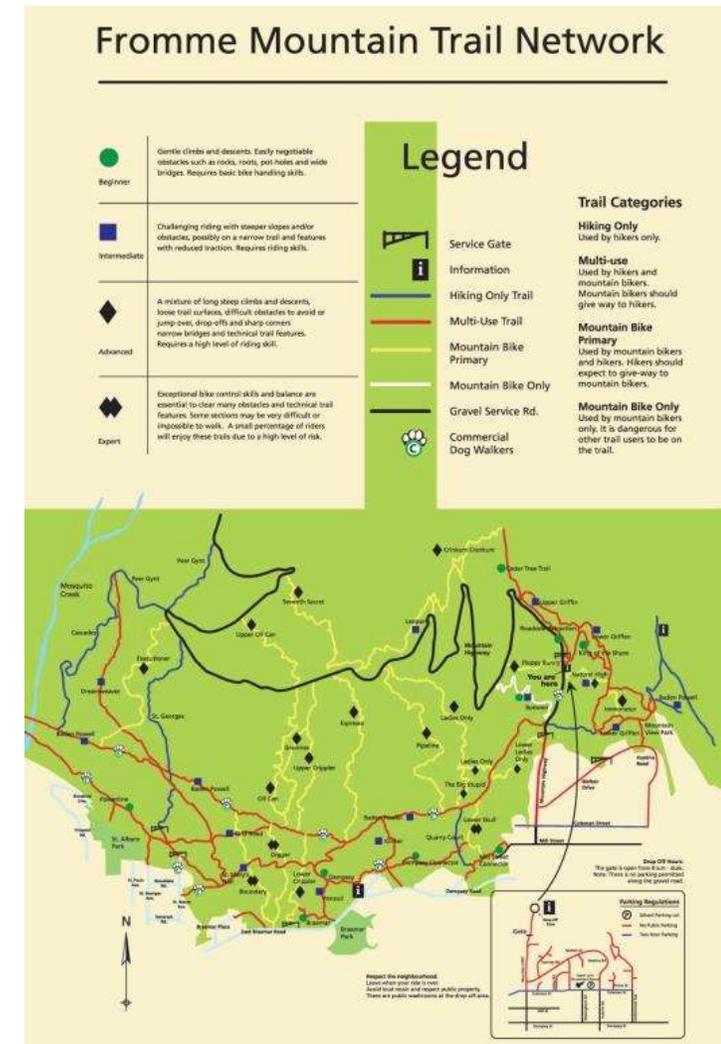
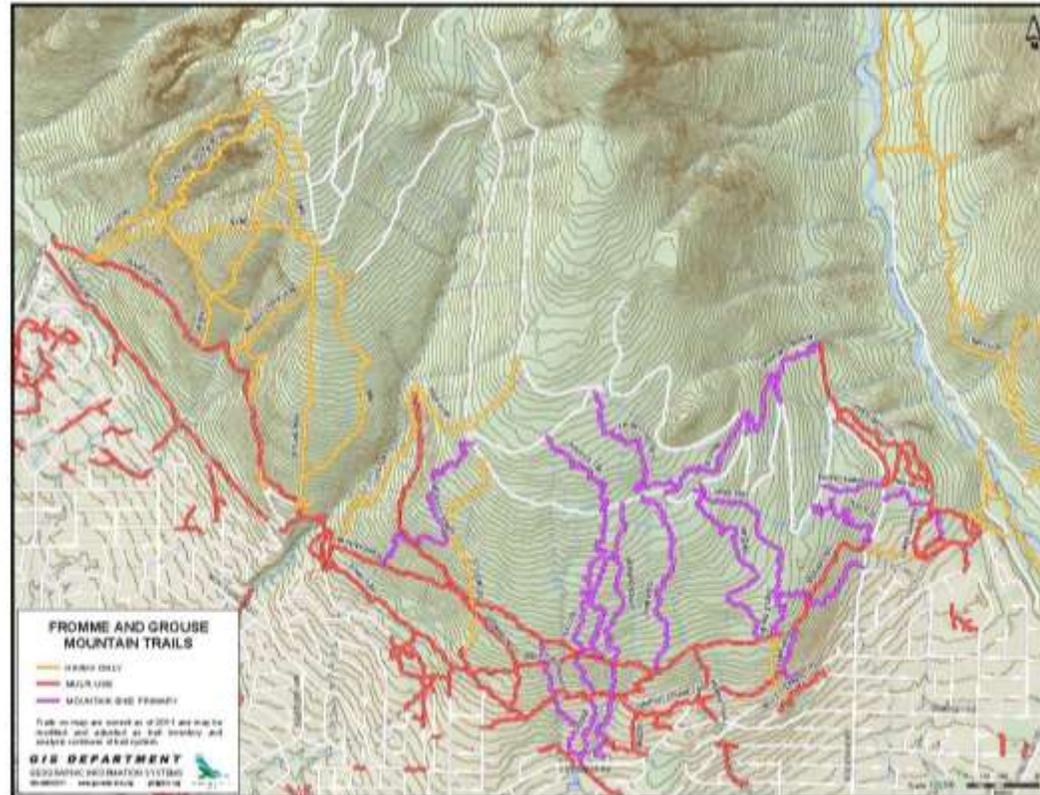
Whats been done to date



Trail Mapping for Public Use

COMPREHENSIVE

- 62km network analysis
- trail locations by type/difficulty



Public Trail Signage

- 100+ new signs
- wayfinding
- information
- regulation

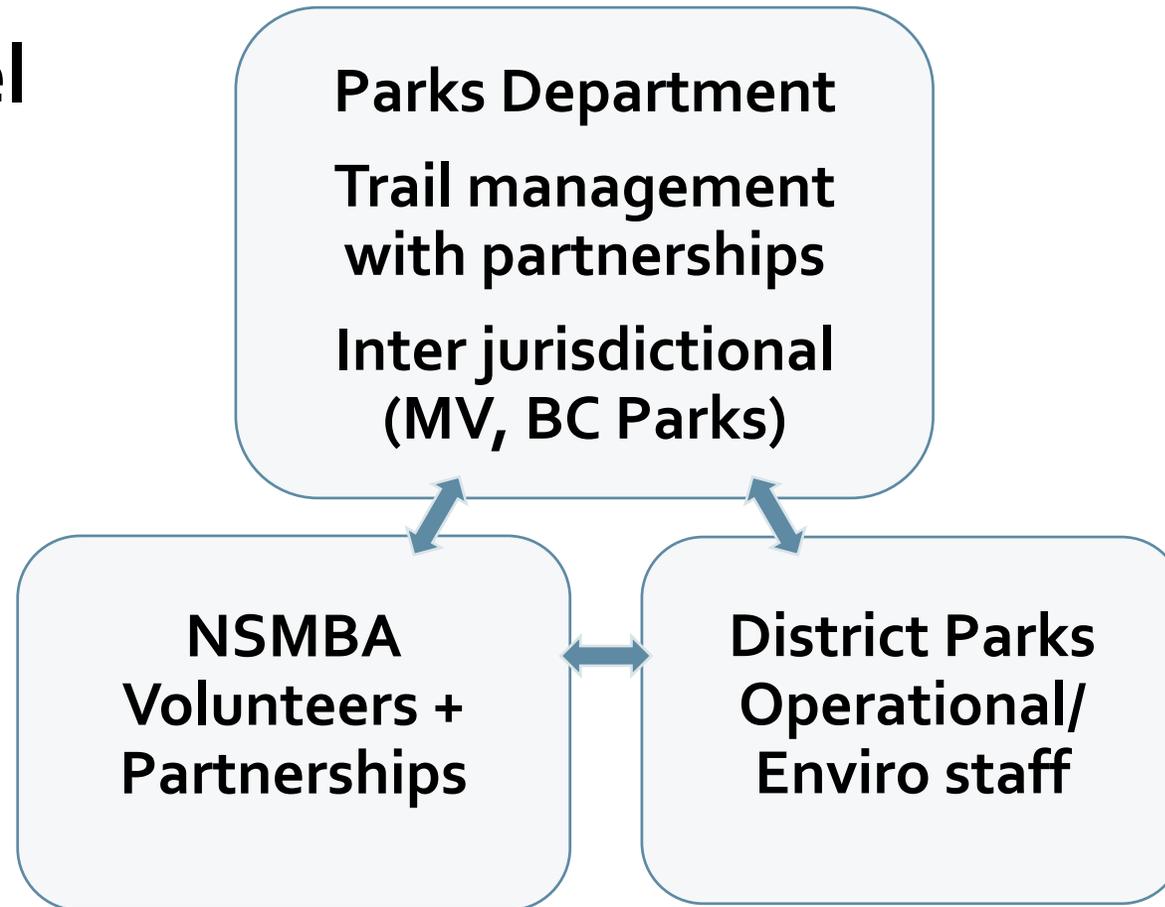


Implementation *Trail Classification Recommendations (2009)*

1. Implemented recommendations on a number of trails (2009 – 2014)
2. Strengthened partnerships with NSMBA/volunteers
3. Forest enhancement/habitat planting projects
4. Mountain View Park – new exit route for bikers/fenced wetland
5. New Parking/Staging drop-off area
6. Trail Decommissioning (ongoing)



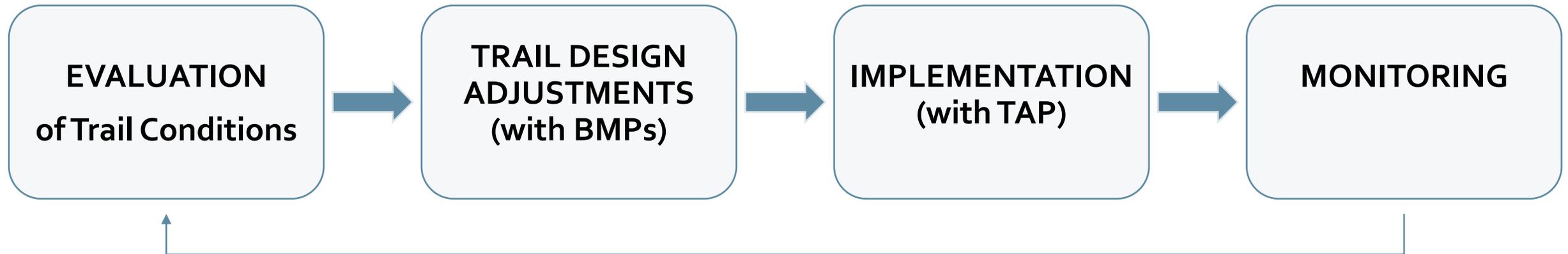
Current Trail Service Delivery Model



Commitment to Adaptive Management



Commitment to Adaptive Management



Challenges 2009 - 2014



2014: **25** trail maintenance permit requests (NSMBA)

2015: **34** trail maintenance permit requests (*36% increase*)

Environmental Assessment

1. Data collection and analysis of trail conditions and environmental impacts
2. Evaluation of effectiveness of BMPs and standards in Trail Study
3. Engagement of key stakeholders to understand concerns



The Fromme Mountain Trail Classification Study (2008)

- Identifies trails to manage, consolidate or close;
- Guides trail maintenance and upgrades; and,
- Provides best management practices (BMPs) for trail construction.



Trail Usage and Pressures

- Increase in ridership on Fromme Mountain
- Shifting demographic



Stakeholder Consultation

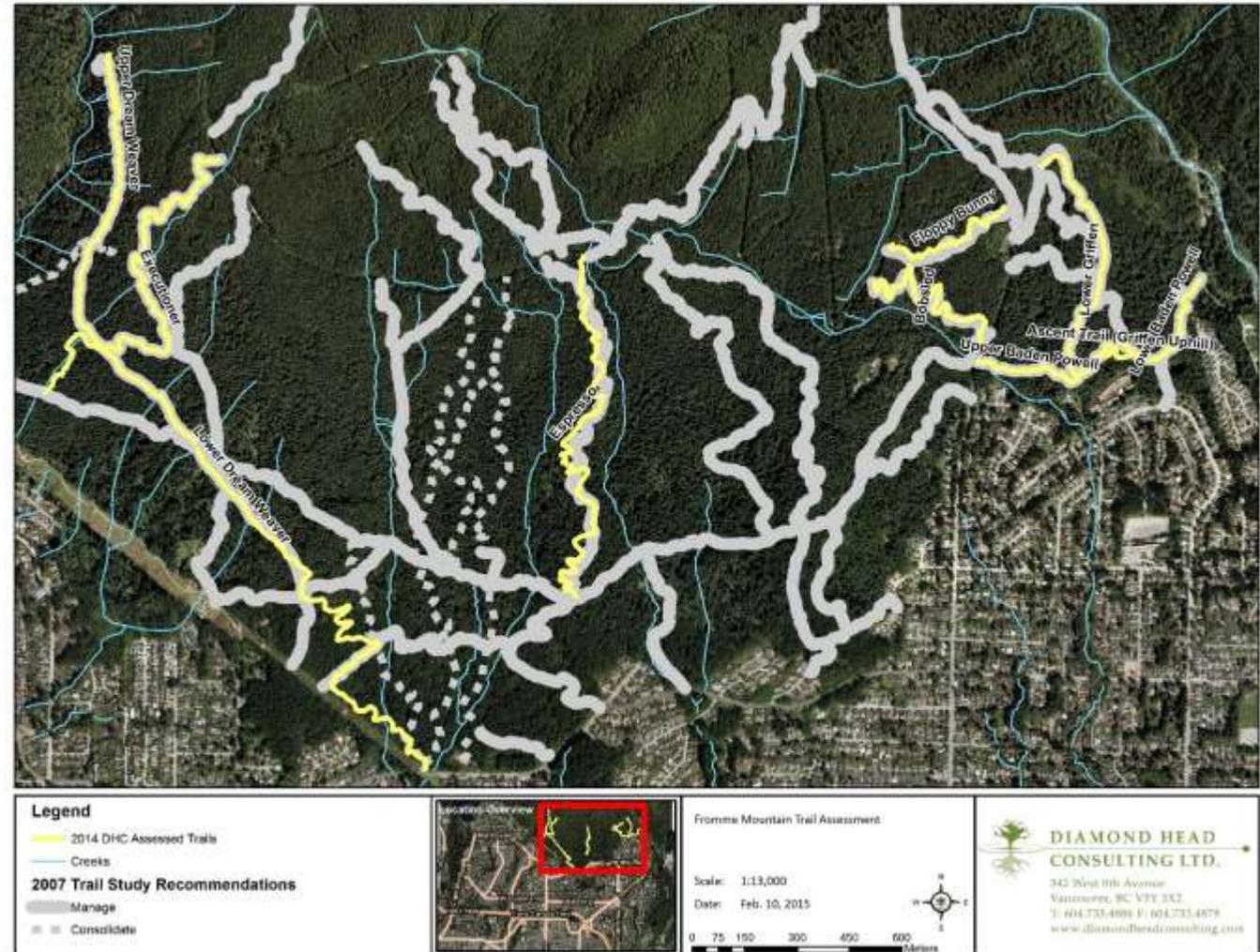
Primary stakeholders concerns related to trail use and environmental impacts include:

- Soil erosion
- Impacts on water
- Non-sanctioned trail development/use



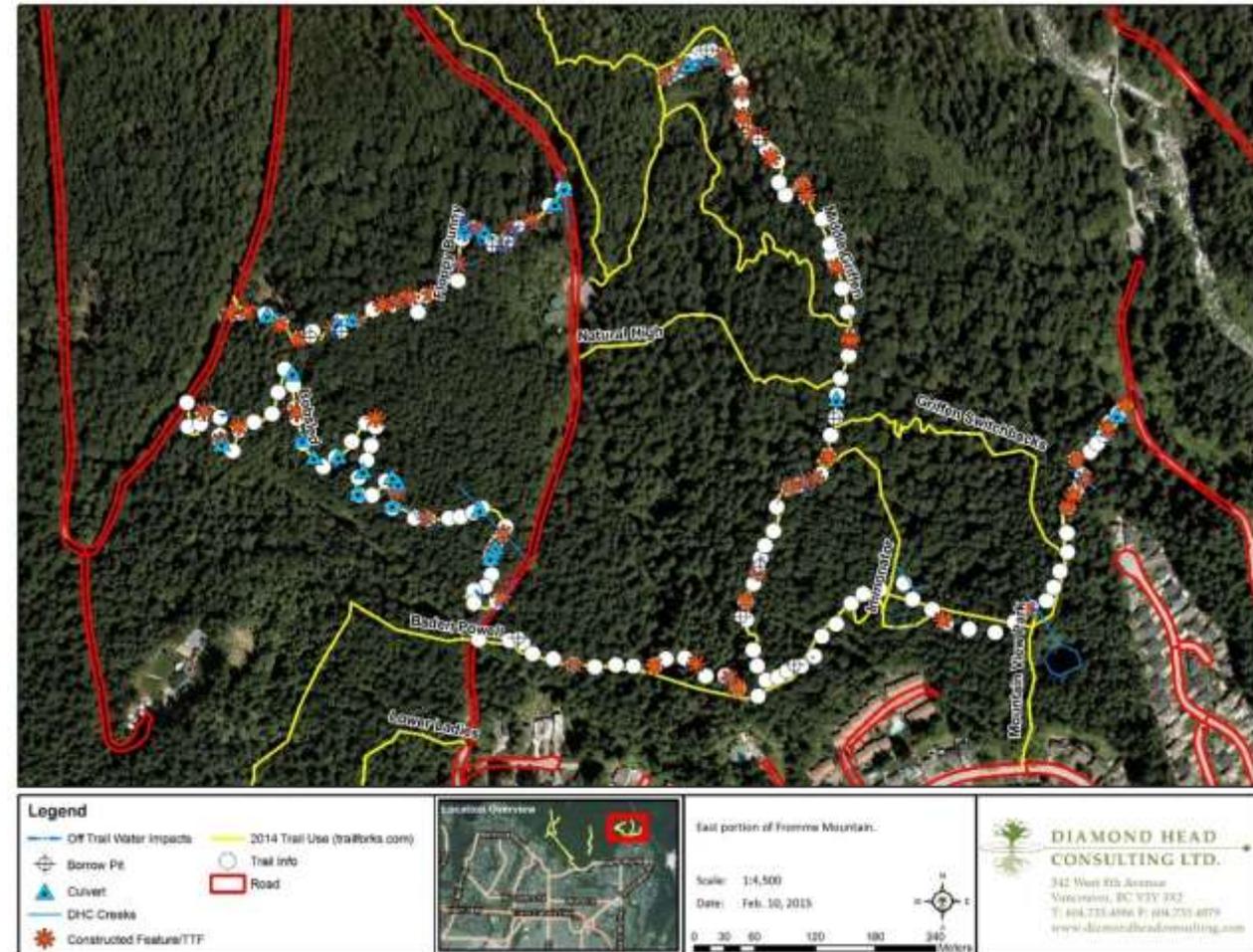
Methodology

- 8 trails
- 9,180m in length
- 459 plots



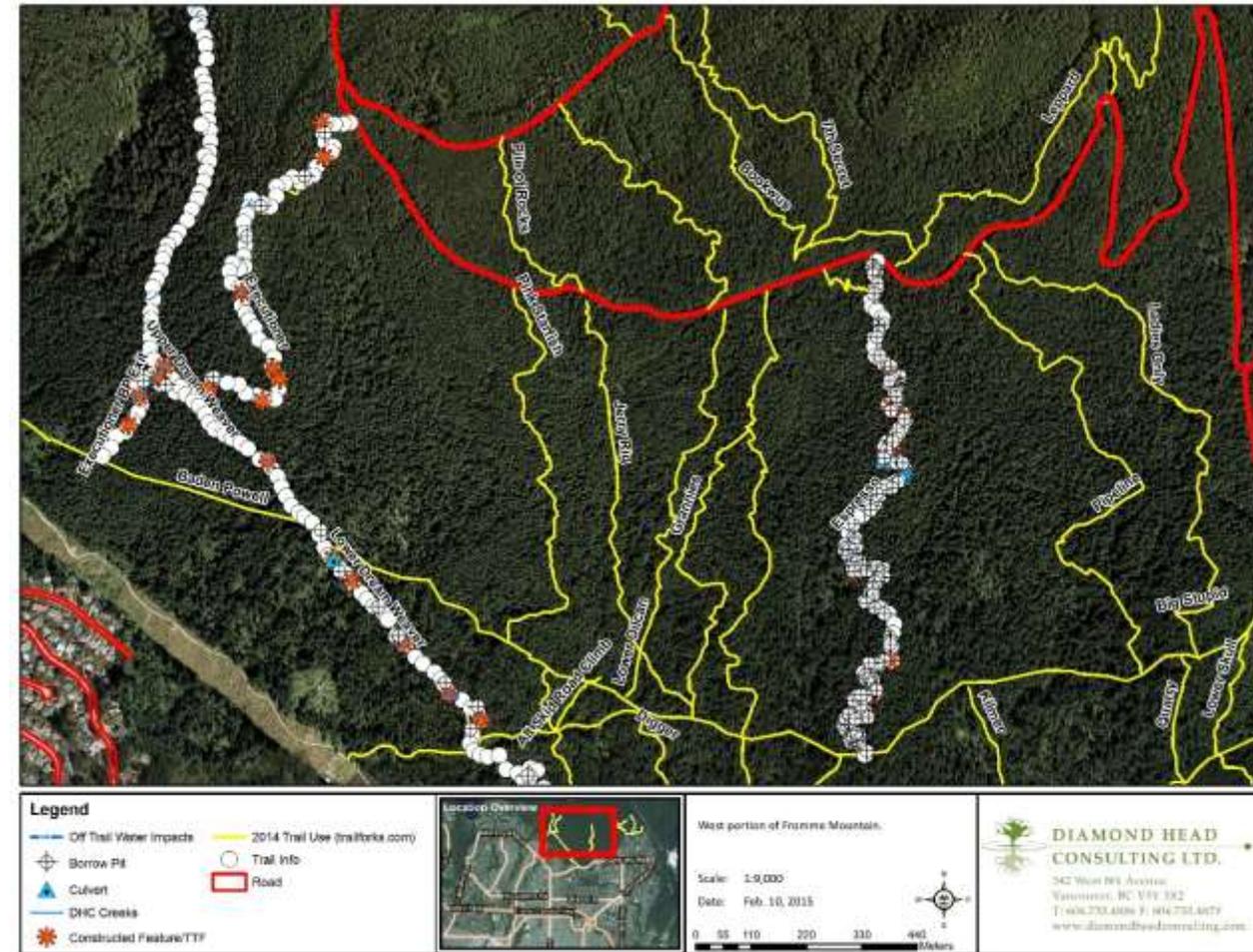
What was Assessed

- Width and grade
- Tread type and wear
- Off trail impacts
- Surface water flow
- Vegetation impacts
- Borrow pits
- Technical trail features
- Streams crossings
- Unauthorized trails



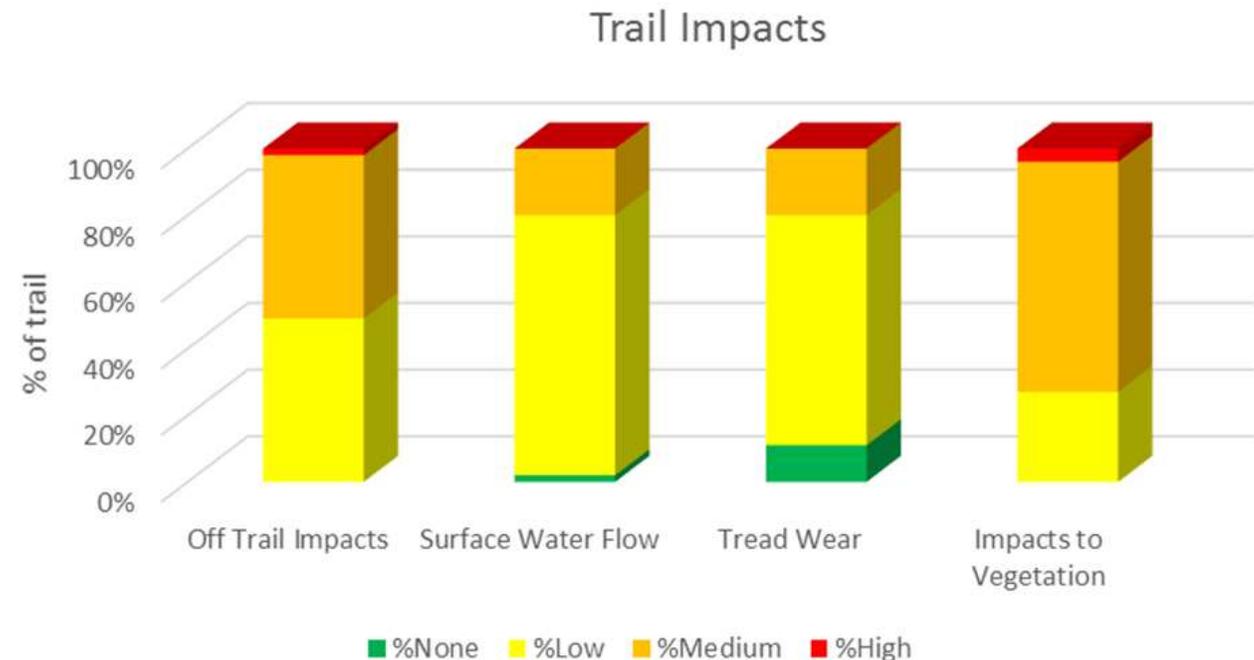
What was Assessed

- Use of native materials
- Wildlife habitat
- Streams, wetlands, riparian areas
- Old growth trees
- Structural diversity
- Species at risk



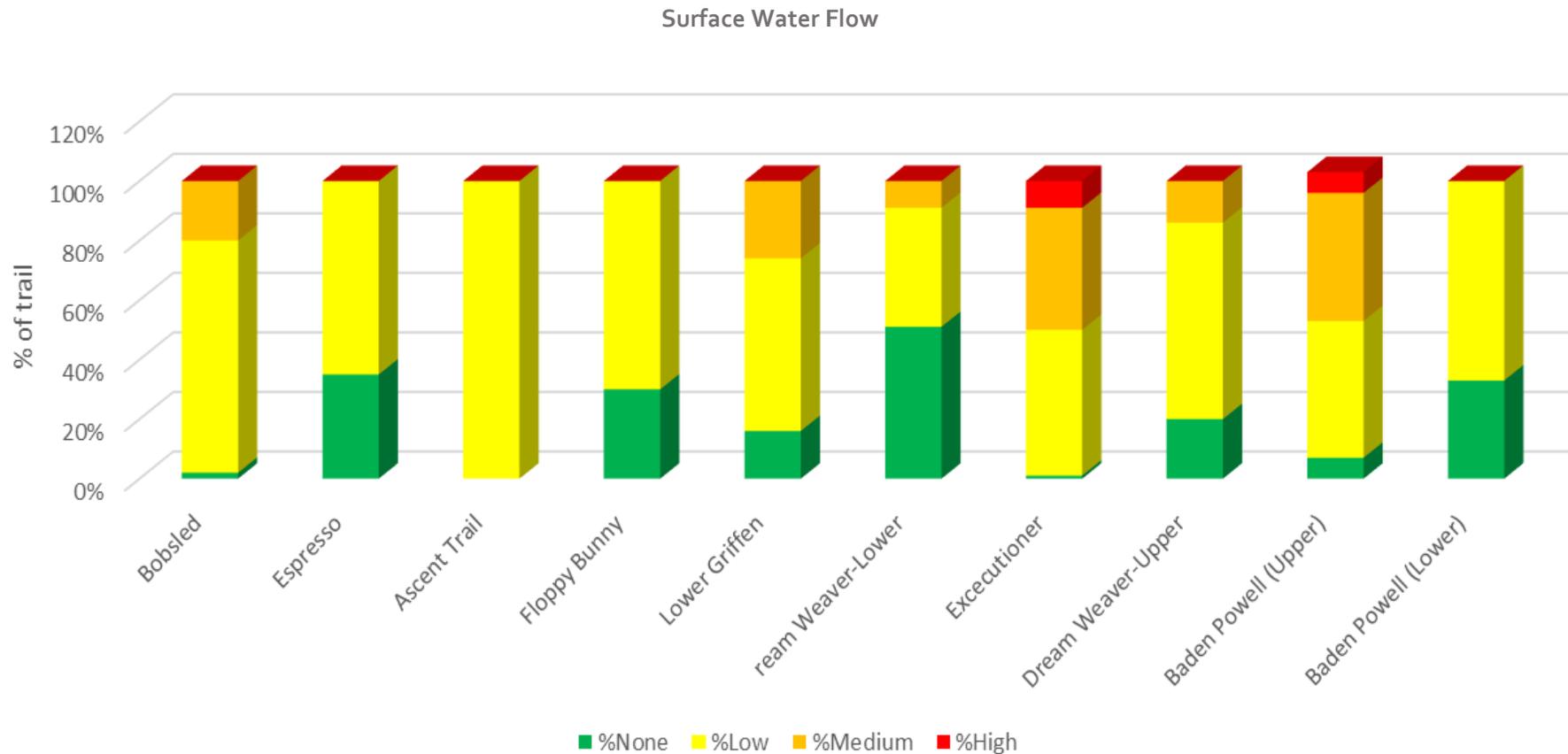
Data Analysis

Trail Name	Bobsled
Difficulty Rating	Green (easy)
Length (m)	920
Main Use	Biking (Downhill)
Average Width (m)	1.8
Maximum width (m)	3.2
Average Slope (%)	10.5
Maximum Slope (%)	35
Trail Description	
% Soil	91%
% Boardwalk	7%
% TTF	1%
% Armored	0%
% Bedrock	0%
Number of Constructed Feat	10
Number of Borrow Pits	
Active	10
Restored	5

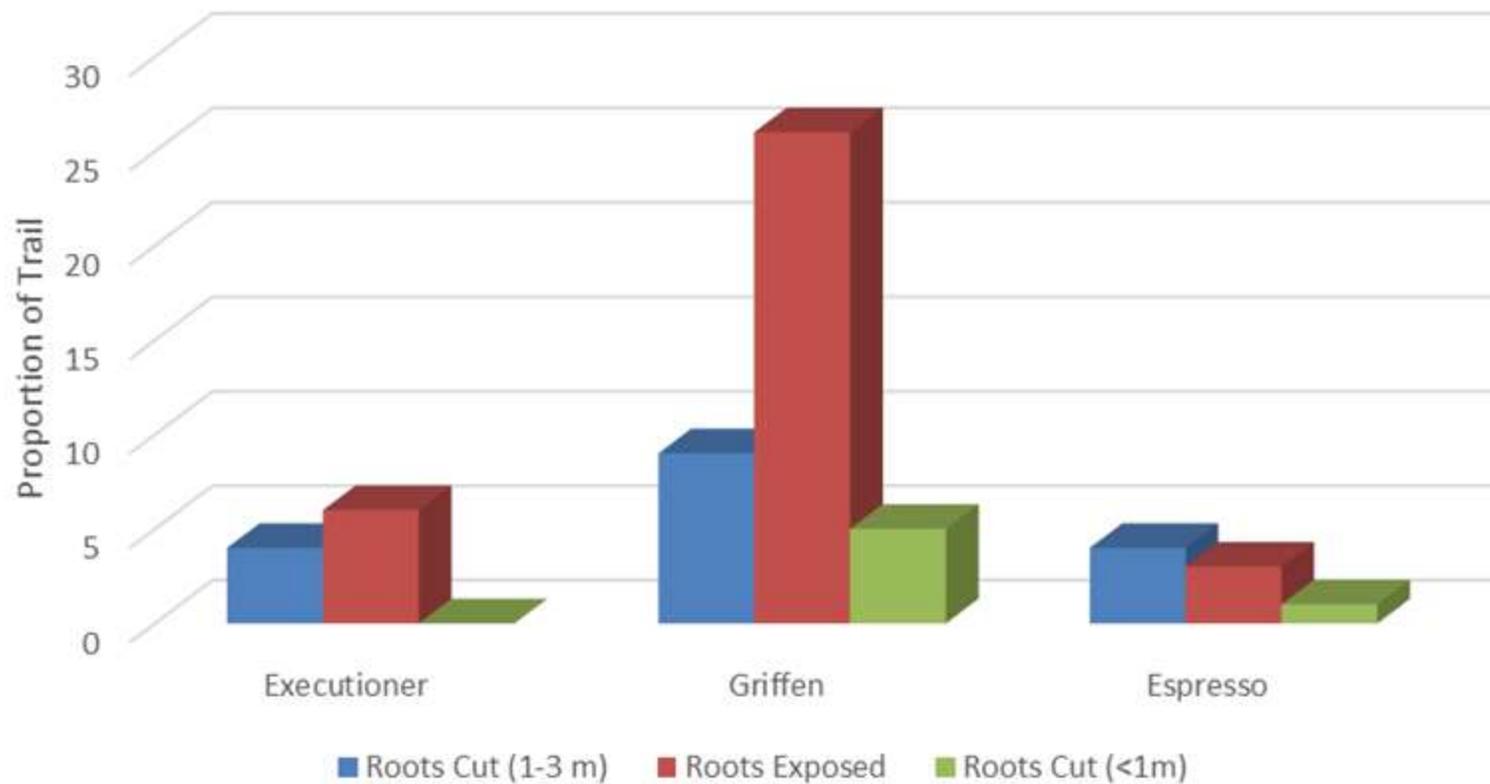


Bobsled

Data Analysis



Data Analysis

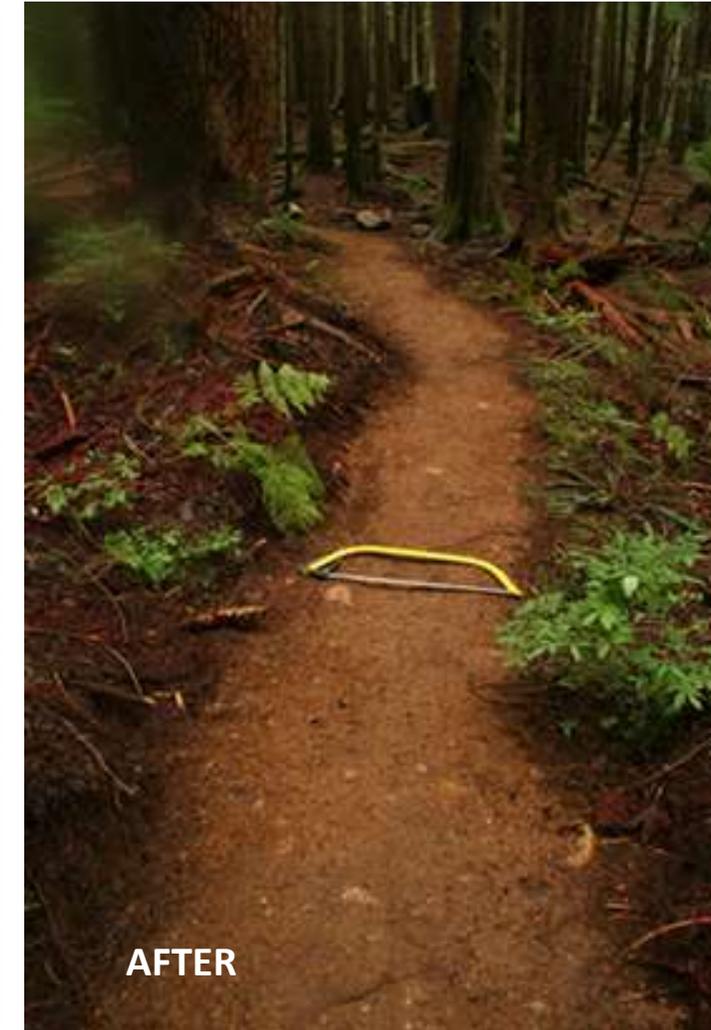


Findings

Trails maintained to the Fromme Mnt Trail Study standards have lower environmental impacts



BEFORE



AFTER

Findings

Less water runoff and erosion



Findings

Fewer impact to tree roots



Before



After

Findings

Creek crossings can be improved to protect water quality or riparian habitat:

- Crossings should be wider and designed to prevent people/dogs from accessing the creek bed;
- Permitting requirements need to be updated; and
- Trails within riparian zones are a priority for upgrading



Recommendations

- Ongoing adaptive management;
- Long-term strategic approach;
- Improve certain BMPs and standards;
- Funding and staff resources for implementation; and
- Continue cooperation with the NSMBA and trail volunteers.



TOP PRIORITIES

- Upgrade crossings of high-value creeks
- Upgrade all trails within 30m of significant creeks
- Manage unauthorised trails



Work Plan for 2015

Key Projects	Schedule
1. Fromme Mtn Parking/staging area construction – open to public	Summer 2015
2. Braemar Parking/staging design – public process/detailed design/construction	Summer 2015 – Winter 2015
3. Braemar trail modifications (NSMBA)	Spring/Summer 2015
4. NSMBA – Annual Trail Adoption Program	Ongoing as per every year
5. Increase Ranger/Bylaw with additional resources	Spring/Summer
6. Trail Decommissioning of rogue trails	Ranger program + community partnerships
7. Risk Management – Trail Review Designation at “pinch points” (review signage + trail regulations)	Spring/Summer 2015
8. DNV Website info on TAP 2015 Program	Summer 2015
9. Continue to improve environmental practices BMPs	Spring/Summer 2015

Next Steps

- Review report recommendations with key stakeholders
- Finalize draft environmental assessment report
- Staff to report back on implementation plan based on final environmental assessment report

