



Photo: Elle Ambrasi



Photo: Susan Kelly-Easton



Photo: Michele Wagner



2021 – 2022 Capital Plan Update

NH/RHD Joint Fall Meeting

October 18, 2021

Agenda

2021-2022 Capital Projects

- Priority Investments in Progress
- Major Projects <\$10M
- Carbon Neutral Capital Program (CNCP)
- Major Equipment >\$100,000
- IM/IT Major Projects
- Minor Capital <\$100,000
- Minor Building Integrity

Priority Investment

Mills Memorial Hospital Redevelopment Project

- The total capital cost of the Project is \$622.6 million with Northwest Regional Hospital District (NWRHD) funding of \$110.2 million.
- The construction is in the first phase and is scheduled to be complete in 2024 with work on the second phase (demolition and paving of the old hospital) expected to start once the new Hospital and new Seven Sisters are fully operational.
- The completion of the entire Project is expected in 2026.
- The Design Build model was selected for the Project as it is expected to best meet Northern Health's procurement and overall Project objectives and allow Northern Health to best manage and mitigate key project risks to deliver the Project in a cost effective and efficient manner.



Timeline

Completed



We are here!



What's next



Mills Memorial Hospital Replacement Project Terrace, BC

We are building a new, state-of-the-art hospital in Terrace, BC, to address current and future patient care needs.



Let's Talk Northern Health is where you'll find the most up-to-date information about the new hospital.



letstalk.northernhealth.ca/register

letstalkMMH@northernhealth.ca

Live Web Cam is now available :

https://ceeplayer.net/dx-interface/138/locations/292?mode=LIVE_SNAPSHOT

Mills Memorial Hospital Redevelopment Project

- Steering Committee started in 2019 after business plan approval. Includes representation from North West RHD. Meets monthly.
- Capital Project Advisory Committee started in 2018. Includes representatives from Northern Health, local First Nations, municipalities and partners. Meets quarterly.
- MMH Indigenous Working Group started in spring 2021. Includes representatives from local First Nations, Métis Nation and Indigenous groups. Meets every 2-3 months or as needed.
- MMH Community Advisory Working Group – Started September 2021. Representatives from regional and community organizations. To meet every 2-3 months or as needed.



Priority Investment

Fort St James Stuart Lake Hospital Redevelopment

- Government approved the business plan on January 18, 2020.
- Request for Qualifications (RFQ) Stage was completed July 2020.
- Request for Proposals (RFP) Design Early Works Agreement (DEWA) Stage was August 2020 to June 2021.
- RFP Design Build Agreement Stage was submitted to Graham Construction February 2021.
 - Currently at 30% design development, progressing towards the 60% submission December 2021.
 - Current schedule has Construction is tentatively planned to begin June 2022.



Timeline

Completed



We are Here!



Next Steps



Stuart Lake Hospital Replacement Project Fort St James, BC

We are building a new, state-of-the-art hospital in Fort St James, BC to address current and future patient care needs.

Let's Talk



Let's Talk Northern Health is where you'll find the most up-to-date information about the new hospital.



Letstalk.northernhealth.ca

Priority Investment

Dawson Creek & District Hospital Redevelopment

- Government approved the business plan on September 4, 2020.
- Capital Planning is working closely with Infrastructure BC in this development.
- Proceeding with Progressive Design Build procurement.
- A Request for Proposals (RFP) was issued to three shortlisted proponents resulting in Clark Turner Dawson Creek JV signing the Design Early Works Agreement on September 2, 2021. The Design-Build Agreement RFP was issued September 8, 2021.
- The Capital Project Advisory Committee continues to meet on a quarterly basis. The intent is to keep the community and local First Nations informed of the project and receive input.

Timeline

Completed



We are Here!



Next Steps



Dawson Creek & District Hospital Replacement Project Dawson Creek, BC

We are building a new, state-of-the-art hospital in Dawson Creek, BC to address current and future patient care needs.

Let's Talk



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Priority Investment

Quesnel: GR Baker ED+ICU Addition

- The project was announced on April 2019.
- Regional cultural history and finding human remains at the site necessitates continuous archaeological review until all excavation at the site is complete.
- The Early Works phase, completed in March 2020, revealed further human remains. The remains were confirmed to be of First Nations descent and were reinterred during a traditional ceremony on November 30, 2020.
- The project tendered successfully within approved funding and was awarded for construction in August 2020.
- Construction is proceeding under COVID-19 protocols and the project is scheduled to be complete in the Summer of 2022.

Link to Live Web Cam: [Galaxy2 \(ceeplayer.net\)](https://www.ceeplayer.net/Galaxy2)

Timeline

Completed



We are Here!



Next Steps



Gr Baker Hospital Emergency Department and ICU Quesnel, BC

We are building a new emergency department and intensive care unit to improve patient flow, access to imaging and labs, and the alignment of critical care services between the ED and ICU.

Let's Talk



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Priority Investment

Potential Project Risks:

- Objections and potential protests from local special interest groups.
- Certain retained risks materializing as construction commences (e.g. environmental).
- Potential impacts due to COVID-19 includes but not limited to:
 - Lodging issues if additional health orders are enacted
 - Cost escalation on components due to global supply chain challenges
 - Availability of experienced contractors bidding on projects
 - Availability of materials and supplies

Major Projects

RHD	Community	Project	Budget	RHD Funding
NWRHD	Smithers	BVDH Sterile Compounding Room Upgrade	\$2,505,000	\$1,002,000
NWRHD	Smithers	Bulkley Lodge Nurse Call System	\$429,000	\$171,600
PRRHD	Fort St. John	FSJH Lab Renovation (WCB Compliance)*	\$1,217,000	\$486,800
PRRHD	Fort St. John	FSJH Sterile Compounding Room Upgrade*	\$1,006,500	\$402,600
CCRHD	Quesnel	GR Baker Kitchen Renovation	\$5,000,000	\$2,000,000
FFGRHD	Prince George	Gateway Vocera	\$497,000	\$198,800
NWRHD	Northern Haida Gwaii	NHG Observation Room	\$991,000	\$396,400
NWRHD	Prince Rupert	PRRH Sterile Compounding Room Upgrade	\$1,540,000	\$616,000
CCRHD	Quesnel	Quesnel MH Substance Abuse Club Leasehold Improvement	\$1,271,000	\$508,400
SNRHD	Vanderhoof	SJH Sterile Compounding Room Upgrade	\$1,972,000	\$788,800
NWRHD	Terrace	Terrace Specialist Clinic Leasehold Improvement	\$1,749,000	\$699,600
PRRHD	Tumbler Ridge	Cooling System Replacement	\$598,000	\$239,200

Major Projects

RHD	Community	Project	Budget	RHD Funding
FFGRHD	Prince George	UHNBC Cardiac Services Department Renovation*	\$12,500,000	\$5,000,000
FFGRHD	Prince George	UHNBC Transformer Replacement	\$2,125,000	\$850,000
FFGRHD	Prince George	UHNBC Sterile Compounding Room Upgrade*	\$1,900,000	\$760,000

Sterile Compounding Room Upgrades

Bulkley Valley District Hospital

- Project Value - \$2,505,000
- Northwest RHD Funding - \$1,002,000
- Renovate the existing space next to the Pharmacy to add a hazardous compounding and ante room, Hazardous drug storage, and preparation space to meet NAPRA (National Association of Pharmacy Regulatory Authorities) Standards.
- Project Status: Awaiting approval of by-law exception from Town of Smithers.

Fort St John Hospital

- Project Value - \$1,006,500
- Peace River RHD Funding - \$402,600
- Renovate the existing Pharmacy sterile prep space and ante room, hazardous compounding and ante room, Hazardous drug storage, and non sterile preparation space to meet NAPRA Standards
- Project Status: Started construction October 2021; estimated completion January 2022.

Sterile Compounding Room Upgrades

Prince Rupert Hospital

- Project Value - \$1,540,000
- Northwest RHD Funding - \$616,000
- Renovate the existing Pharmacy sterile prep space and ante room, hazardous compounding and ante room, Hazardous drug storage, and non sterile preparation space to meet NAPRA Standards.
- Project Status: Design Stage – Reviewing options for new Air Handling Unit placement

St John Hospital (Vanderhoof)

- Project Value - \$1,972,000
- Stuart Nechako RHD Funding - \$788,800
- Renovate the existing Pharmacy hazardous compounding and ante room, Hazardous drug storage, and non sterile preparation space to meet NAPRA Standards.
- Project Status: In Construction – 75% complete

Sterile Compounding Room Upgrades

UHNBC

- Project Value - \$1,900,000
- Fraser Fort George RHD Funding - \$760,000
- Design and planning for renovating the existing Pharmacy sterile prep space and ante room, hazardous compounding and ante room, Hazardous drug storage, and non sterile preparation space to meet NAPRA Standards.
- Project Status: Design Phase – Early Design being completed with emphasis on Air Handling Unit requirements and location.

Major Projects

Bulkley Lodge Nurse Call System

- Project Value: \$429,000
- Northwest RHD Funding: \$171,600
- Project Description: Replacement of failing nurse call system.
- Project Status: Final design is ongoing, with tender expected within the next couple weeks. Construction is expected to be completed by March 2022.

Major Projects

Fort St John Lab Renovation

- Project Value: \$1,217,000
- Peace River RHD Funding: \$486,800
- Project Description: WorkSafe BC Compliance
- Project Status: Started Construction October 2021; estimated completion January 2022

Major Projects

GR Baker Kitchen Renovations

- Project Value: \$5,000,000
- Cariboo Chilcotin RHD Funding: \$2,000,000
- Project Description: Renovate the existing Medical Records storage space to the new kitchen. Demolition of the existing kitchen space.
- Project Status: Construction on new kitchen completed August 30, 2021. Demolition of old Kitchen to be completed by November 30, 2021.

Major Projects

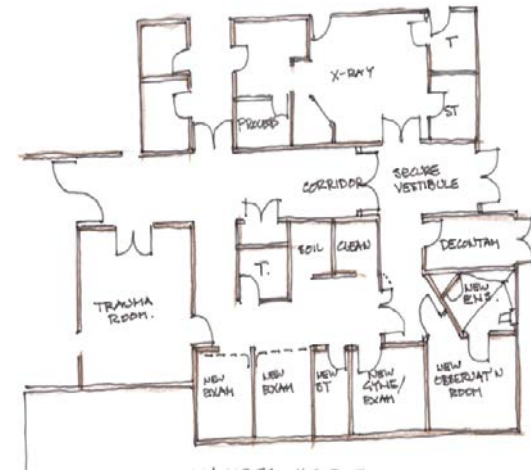
Gateway Lodge Vocera

- Project Value: \$497,000
- Fraser Fort George RHD Funding: \$198,800
- Project Description: Vocera System enables instant hands-free communication between staff members and departments. The system uses wireless technology to provide mobile staff members with instant voice communication.
- Project Status: In progress. Vendor confirming scope and pricing and then set up of the integration for Nurse calls to flow into Connexall (equipment to be shipped to the site).

Major Projects

Northern Haida Gwaii Observation Room

- Project Value: \$991,000
- Northwest RHD Funding: \$396,400
- Description: The Psychiatric Observation Room was approved to proceed in fiscal year 2019/20. COVID-19 prevented further design development.
- Next Steps:
 - Update tender drawings.
 - Tender and award construction.
 - Commission & use.
- Approximate completion Summer 2022.



Major Projects

Quesnel Mental Health Substance Abuse Club Leasehold Improvement

- Project Value: \$1,271,000
- Cariboo Chilcotin RHD Funding: \$508,400
- Project Description: Increased program space needs related to expansion of programming and implementation of Overdose Prevention Site in Quesnel.
- Project Status: In Design Development.

Major Projects

Terrace Specialist Clinic Leasehold Improvement

- Project Value: \$1,749,000
- Northwest RHD Funding: \$699,600
- Project Description: Relocation of the Pediatric specialist clinic in Terrace. The Mills Memorial Hospital replacement project will see this clinic space removed from the site during the early construction period.
- Project Status: In Design Development.

Major Projects

Tumbler Ridge Cooling System Replacement

- Project Value: \$598,000
- Peace River RHD Funding: \$239,200
- Project Description: Complete removal of existing cooling systems (Roof top Condensing Unit and evaporator coil within the Air Handling Unit) and replacement with new.
- Project Status: Initial structural work and shipment of major equipment is expected mid-October. Installation of some equipment will be as weather permits. Full install and commissioning will occur in Spring 2022.

Major Projects

UHNBC Cardiac Services Department Renovations

- Project Value: \$12,500,000
- Fraser Fort George RHD Funding: \$5,000,000
- Capital Planning worked with UHNBC to confirm the proposed location within the hospital. The project to be completed in three phases to accommodate the renovations and moves required to ensure no loss of service for each department.
- Project Status: Awaiting approval from Ministry for business plan. Phase One Tender to follow immediately after approval.

Major Projects

UHNBC Transformer Replacement

- Project Value: \$2,125,000
- Fraser Fort George RHD Funding: \$850,000
- Project Description: Replace existing transformers to provide adequate capacity and system redundancy.
- Project Status: Design is ongoing, with tender expected in October. Construction will occur in the existing powerhouse, and switch over to the new system is anticipated in March 2022. Construction is scheduled to be complete in May 2022.

Carbon Neutral Capital Program (CNCP) Projects

RHD	Community	Project	Budget	RHD Funding
NWRHD	Smithers	Bulkley Lodge Domestic Hot Water Heaters, Tank and Repiping	\$546,667	\$100,055
CCRHD	Quesnel	Dunrovin Heating Boilers Replacement	\$631,948	\$252,779
NRRHD	Fort Nelson	FNH Boiler Upgrade and Heat Recovery	\$743,598	\$297,439
NWRHD	Houston	Houston Air Handling Unit Replacement	\$866,715	\$346,686
NWRHD	Prince Rupert	PRRH Domestic Hot Water Upgrade	\$478,998	\$191,600

- A provincial government initiative to achieve carbon neutrality in the public sector.

CNCP Projects

Bulkley Lodge Domestic Hot Water Heaters, Tank and Re-piping

- Project Value: \$546,667
- Northwest RHD Funding: \$100,055
- Product Description: Two new heating boilers and new high efficiency hot water tank or heat exchangers interfaced with the new boilers.
- Project Status: Budget increased to complete all work as one phase (initially the work would have occurred over two fiscal years). Substantial completion projected for October 15, 2021.

CNCP Projects

Dunrovin Lodge Heating Boilers Replacement

- Project Value: \$631,948
- Cariboo Chilcotin RHD Funding: \$252,779
- Product Description: Replace old atmospheric boilers with high efficiency condensing boilers and upgrade Domestic Hot Water (DHW) system with tankless boilers.
- Project Status: Demolition and construction under way with proposed commissioning November 2021.

CNCP Projects

Fort Nelson Boiler Upgrade and Heat Recovery

- Project Value: \$743,598
- Northern Rockies RHD Funding: \$297,439
- Product Description: Upgrade old boilers to high efficiency and repipe/reconfigure for more efficient operation. Provide heat recovery for the air handling unit and heating ventilation that is connected to exhaust fans.
- Project Status: Demolition and construction underway with commissioning set for November 2021.

CNCP Projects

Houston Air Handling Unit (AHU) Replacement

- Project Value: \$866,715
- Northwest RHD Funding: \$346,686
- Product Description: Replace existing air handling unit and cooling/condensing unit
- Project Status: Construction contract awarded, equipment on order with delivery to site mid-January 2022. Phased installation with the air handling unit. Estimated completion May 2022.

CNCP Projects

Prince Rupert Domestic Hot Water Upgrade

- Project Value: \$478,998
- Northwest RHD Funding: \$191,600
- Product Description: Incorporate dedicated Domestic Hot Water (DHW) heaters, piping upgrades, and decoupling of the high temperature system from the general system to allow the general DHW system to run at lower temperatures and more efficiently.
- Project Status: Currently in design phase to tender December 2021. Construction should complete by February 2022.

Major Equipment (>\$100,000)

RHD	Community	Project	Budget	RHD Funding	Status
CCRHD	Quesnel	CT Scanner Replacement	\$1,916,000	\$766,400	Executing
NWRHD	Kitimat	KIT Washing Machine Replacement	\$388,000	\$155,200	Executing
NWRHD	Prince Rupert	PRRH Chemistry Analyzers Replacement	\$588,000	\$235,200	Executing
FFGRHD	Prince George	UHNBC Washing Machine Replacement	\$956,000	\$292,000	Closing
FFGRHD	Prince George	UHNBC Interventional Fluoroscopy Replacement	\$4,250,000	\$1,700,000	Executing
FFGRHD	Prince George	UHNBC General Fluoroscopy Replacement	\$2,053,000	\$821,200	Executing
FFGRHD	Prince George	UHNBC Lab Chemistry Automation	\$5,746,000	\$2,298,400	Executing
PRRHD	Fort St. John	FSJH Reverse Osmosis	\$485,000	\$0	Executing
FFGRHD	Prince George	UHNBC OR Dual Focus Lithotripter	\$2,303,000	\$921,200	Executing
PRRHD	Chetwynd	Chetwynd Chemistry Analyzer Replacement	\$216,000	\$80,000	Executing
NWRHD	Kitimat	KGH Ultrasound Replacement	\$259,000	\$103,600	Executing
NWRHD	Kitimat	KGH Lab Chemistry Analyzer Replacement	\$177,000	\$70,800	Executing

Major Equipment (>\$100,000) cont'd

RHD	Community	Project	Budget	RHD Funding	Status
NWRHD	Kitimat	KGH Laundry Large Piece Folder Replacement	\$383,000	\$153,200	Executing
FFGRHD	Mackenzie	MCK General X-Ray Replacement	\$952,000	\$380,800	Executing
NWRHD	Stikine	Stikine X-Ray Machine Replacement	\$535,000	\$214,000	Executing

Surgical Renewal Equipment & Projects

RHD	Community	Project	Budget	RHD Funding	Status
NWRHD	Smithers	BVDH Anesthetic Machine Replacement	\$97,841	\$58,705	Complete
PRRHD	Dawson Creek	DCDH Anesthetic Machine Replacement	\$97,483	\$0	Complete
PRRHD	Dawson Creek	DCDH Automated Medication Dispensing Cabinet	\$172,000	\$0	Executing
PRRHD	Dawson Creek	DCDH Video Towers Replacement x2	\$200,420	\$0	Complete
PRRHD	Fort St. John	FSH Anesthetic Machine Replacement x2	\$195,088	\$78,035	Complete
CCRHD	Quesnel	GRB OR Light x2	\$60,518	\$0	Complete
NWRHD	Kitimat	KIT C-Arm Replacement	\$178,523	\$0	Complete
NWRHD	Kitimat	KIT Mini C-Arm	\$87,359	\$0	Complete
NWRHD	Kitimat	KIT Anesthetic Machine Replacement	\$97,960	\$0	Complete
NWRHD	Terrace	MMH Anesthetic Machine Replacement x3	\$292,223	\$0	Complete
NWRHD	Terrace	MMH Automated Medication Dispensing Cabinet	\$182,000	\$0	Executing
NWRHD	Terrace	MMH Video System Tower 1 Replacement	\$215,828	\$86,331	Complete

Surgical Renewal Equipment & Projects cont'd

RHD	Community	Project	Budget	RHD Funding	Status
NWRHD	Terrace	MMH Video System Tower 2 Replacement	\$237,000	\$0	Executing
NWRHD	Terrace	MMH OR Drill – Surgical	\$32,786	\$0	Complete
NWRHD	Prince Rupert	PRR OR Table	\$37,074	\$0	Complete
FFGRHD	Prince George	UHNBC Low Temperature Sterilizer Replacement	\$123,484	\$49,394	Complete
FFGRHD	Prince George	UHNBC OR Microscopes Replacement	\$267,414	\$0	Complete
NWRHD	Hazelton	Wrinch Anesthetic Machine Replacement	\$96,216	\$0	Complete
NWRHD	Prince Rupert	PRRH MDRD Equipment Replacement & Centralization	\$738,000	\$0	Executing
FFGRHD	Prince George	OR Electrical Upgrade and Light Conversion	\$561,341	\$0	Executing

COVID Equipment

RHD	Community	Project	Budget	RHD Funding	Status
FFGRHD	Prince George	UHNBC BioFire Film Array	\$267,198	\$0	Complete
FFGRHD	Prince George	UHNBC GenExpert XVI	\$114,060	\$0	Complete
FFGRHD	Prince George	UHNBC Panther Fusion	\$832,000	\$0	Closing
FFGRHD	Prince George	UHNBC Low Temperature Sterilizer – Sterizone	\$131,177	\$0	Complete
FFGRHD	Prince George	UHNBC ED Negative Pressure Upgrade	\$360,000	\$0	Executing
All	All	Other Minor Equipment	\$3,480,000	\$0	Closing

IM/IT Major Projects

RHD	Community	Project	Budget	RHD Funding
Regional	REG	EmergCare	\$4,350,000	\$1,740,000
Regional	REG	Endoscopy System Phase 1	\$788,000	\$315,200
Regional	REG	Northern Lights – Regional Personal Health Record/Portal	\$1,197,000	\$478,800
FFGRHD	Prince George	UHNBC Phone System Phase 2	\$905,000	\$362,000
Regional	REG	InCare Phase 1	\$4,907,000	\$1,962,800
Regional	REG	eScheduling/Physician On-Call Scheduling	\$491,783	\$0
Regional	REG	Home Care Redesign (Procura Upgrade)	\$1,290,000	\$0
Regional	REG	Sharepoint Upgrade	\$207,599	\$0
NWRHD	Houston	Phone System Replacement	\$100,000	\$40,000
PRRHD	Dawson Creek	Phone System Replacement	\$453,000	\$181,200
SNRHD	Fraser Lake	Phone System Replacement	\$100,000	\$40,000
Regional	REG	Computer Assisted Coding Software	\$234,000	\$0
Regional	REG	Core Network Infrastructure	\$949,000	\$379,600
Regional	REG	SurgCare	\$775,111	\$0

IM/IT Major Projects

EmergCare

- Project Value: \$4,350,000
- RHD Funding: \$1,740,000
- Description: EmergCare is a quality improvement project involving 26 emergency department clinical processes, practices, documentation, orders and IT tools/EMR (e.g. Cerner FirstNet).
- EmergCare will run parallel to InCare phase 1
- Project Status: In progress

IM/IT Major Projects

Endoscopy System Phase 1

- Project Value: \$788,000
- RHD Funding: \$315,200
- Description: UHNBC, Fort St. John and GR Baker hospitals currently use EndoWorks as the endoscopy procedure system. EndoWorks is past end of life and is being replaced with a new EndoPro system.
- Project Status: Complete

IM/IT Major Projects

Northern Lights – Personal Health Record/Portal

- Project Value: \$1,197,000
- RHD Funding: \$478,800
- Description: The Northern Lights Project involves the establishment of two patient portals linked to primary and community care, and acute care Electronic Medical Records (EMR) to provide lab results and imaging reports to people receiving care within Northern Health.
- Project Status: Closing

IM/IT Major Projects

UHNBC Phone System Phase 2

- Project Value: \$905,000
- Fraser-Fort George RHD Funding: \$362,000
- Description: Upgrading old technology
- Project Status: In Progress

IM/IT Major Projects

InCare Phase 1

- Project Value: \$4,907,000
- RHD Funding: \$1,962,800
- Description: InCare phase 1 is a quality improvement project to increase the safety and effectiveness of in-patient acute care within seven sites by digitally enabling care processes, practices and documentation.
- InCare phase 1 will run in parallel to EmergCare
- Project Status: In progress

IM/IT Major Projects

Houston Phone System Replacement

- Project Value: \$100,000
- Northwest RHD Funding: \$40,000
- Description: Upgrading old technology
- Project Status: Initial Planning

IM/IT Major Projects

Dawson Creek Phone System Replacement

- Project Value: \$453,000
- Peace River RHD Funding: \$181,200
- Description: Upgrading old technology
- Project Status: Initial Planning

IM/IT Major Projects

Fraser Lake Phone System Replacement

- Project Value: \$100,000
- Fraser-Fort George RHD Funding: \$40,000
- Description: Upgrading old technology
- Project Status: Initial Planning

IM/IT Major Projects

Core Network Infrastructure

- Project Value: \$949,000
- RHD Funding: \$379,600
- Description: Replacement of core network and wireless control systems to ensure visibility, security and control of the network connected devices and users
- Project Status: In Progress

Minor Capital (<\$100,000)

RHD	Total Funding	RHD Funding
Fraser-Fort George HD	\$2,679,000	\$1,050,000
Stuart-Nechako RHD	\$412,000	\$165,000
Cariboo-Chilcotin RHD	\$479,000	\$187,000
Peace River RHD	\$1,419,000	\$565,000
Northern Rockies RHD	\$165,000	\$64,000
Northwest RHD	\$2,392,000	\$945,000

Minor Building Integrity

RHD	Total Funding	RHD Funding
Fraser-Fort George HD	\$255,000	\$102,000
Stuart-Nechako RHD	\$53,000	\$22,000
Cariboo-Chilcotin RHD	\$87,000	\$35,000
Peace River RHD	\$0	\$0
Northern Rockies RHD	\$100,000	\$40,000
Northwest RHD	\$132,000	\$53,000

Questions?

