

Stearn, Anne HLTH:EX

From: Brown, Stephen R HLTH:EX
Sent: Tuesday, July 12, 2016 9:04 AM
To: Paton, Arlene HLTH:EX
Subject: FW: PPT - Reducing Violence Against Women in Work Camps
Attachments: C3_7 Point Ministry_With Pictures-Final Draft_29JUN2016.pptx

From: Salkus, Beverley MNGD:EX
Sent: Monday, July 4, 2016 10:04 AM
To: Wanamaker, Lori MCF:EX; Sieben, Mark PSSG:EX; Baskerville, Shannon JTST:EX; Hughes, Trevor LBR:EX; Brown, Stephen R HLTH:EX; McKnight, Elaine L MEM:EX; Coley, Simon J JAG:EX; Paton, Arlene HLTH:EX; Boyle, Patricia J PSSG:EX; Dawes, Jacquie CSCD:EX; Jardine, Kevin EAO:EX; Caul, Doug D ABR:EX; Nash, Laurel ABR:EX; Jeakins, Paul OGC:IN; Paulson, Ken OGC:IN; Bailey, Scott EAO:EX; Nikolejsin, Dave MNGD:EX; Coley, Simon J JAG:EX
Subject: PPT - Reducing Violence Against Women in Work Camps

Good morning,

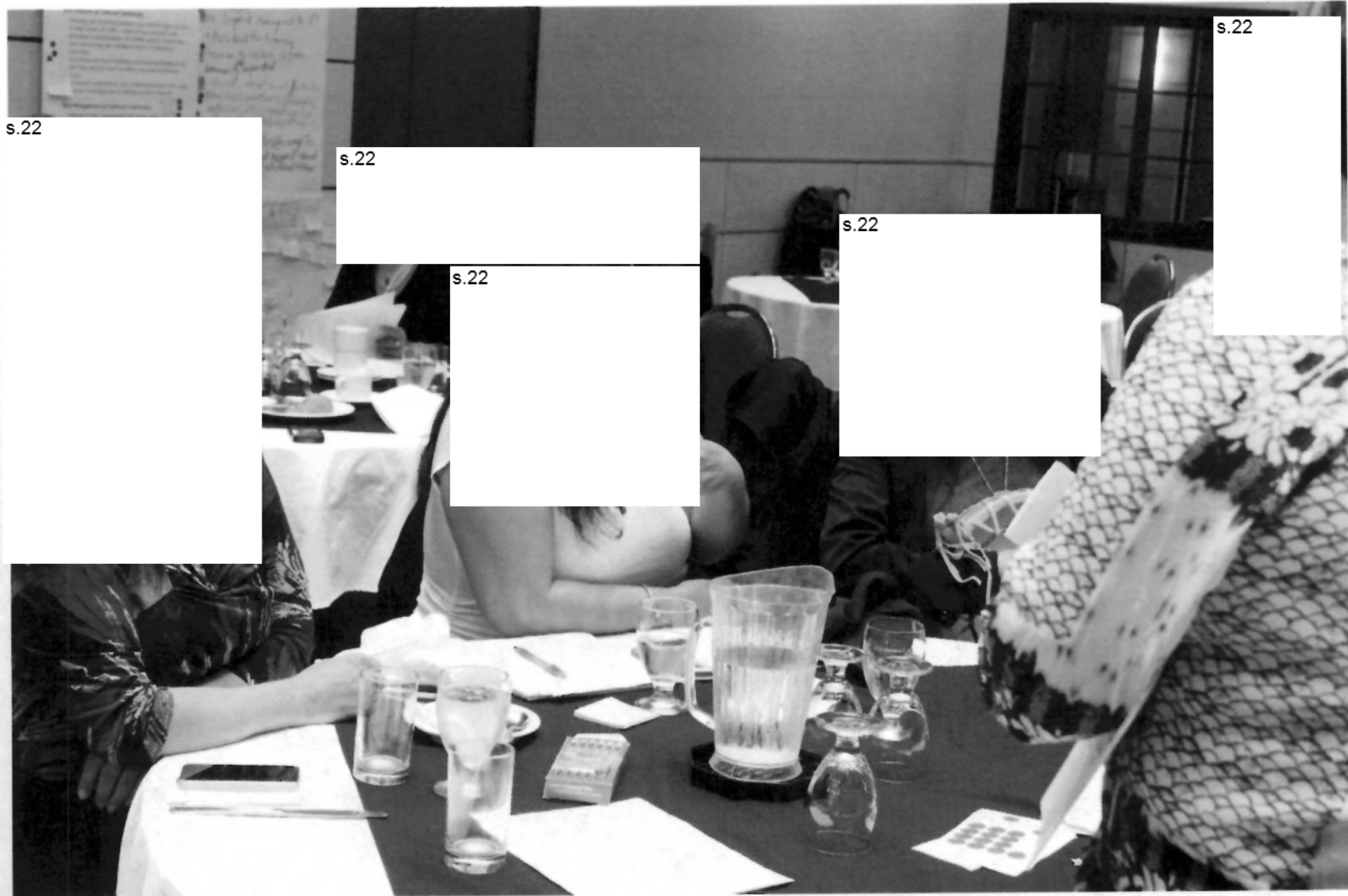
Please find attached the PowerPoint presentation that was presented at the DM's meeting "Reducing Violence Against Women in Work Camps" on June 29th, 2016.

Thank you,

Shanna Quigley on behalf of:
Beverley Salkus
Senior Executive Assistant to
Deputy Minister Dave Nikolejsin
Ministry of Natural Gas Development
8th Floor, 1810 Blanshard Street, Victoria BC
Ph: (250) 952-0504

C3: Communities and Construction Camps







Intent of C3

“Every community has a vulnerable group who are often remotely located, every single one. We women are the vulnerable ones in our community. We have been excellent crisis managers. We respond to crises very well. But we need to work on prevention now, that's why we're here today. For our daughters, for our grand daughters and for ourselves.” - Betty Patrick



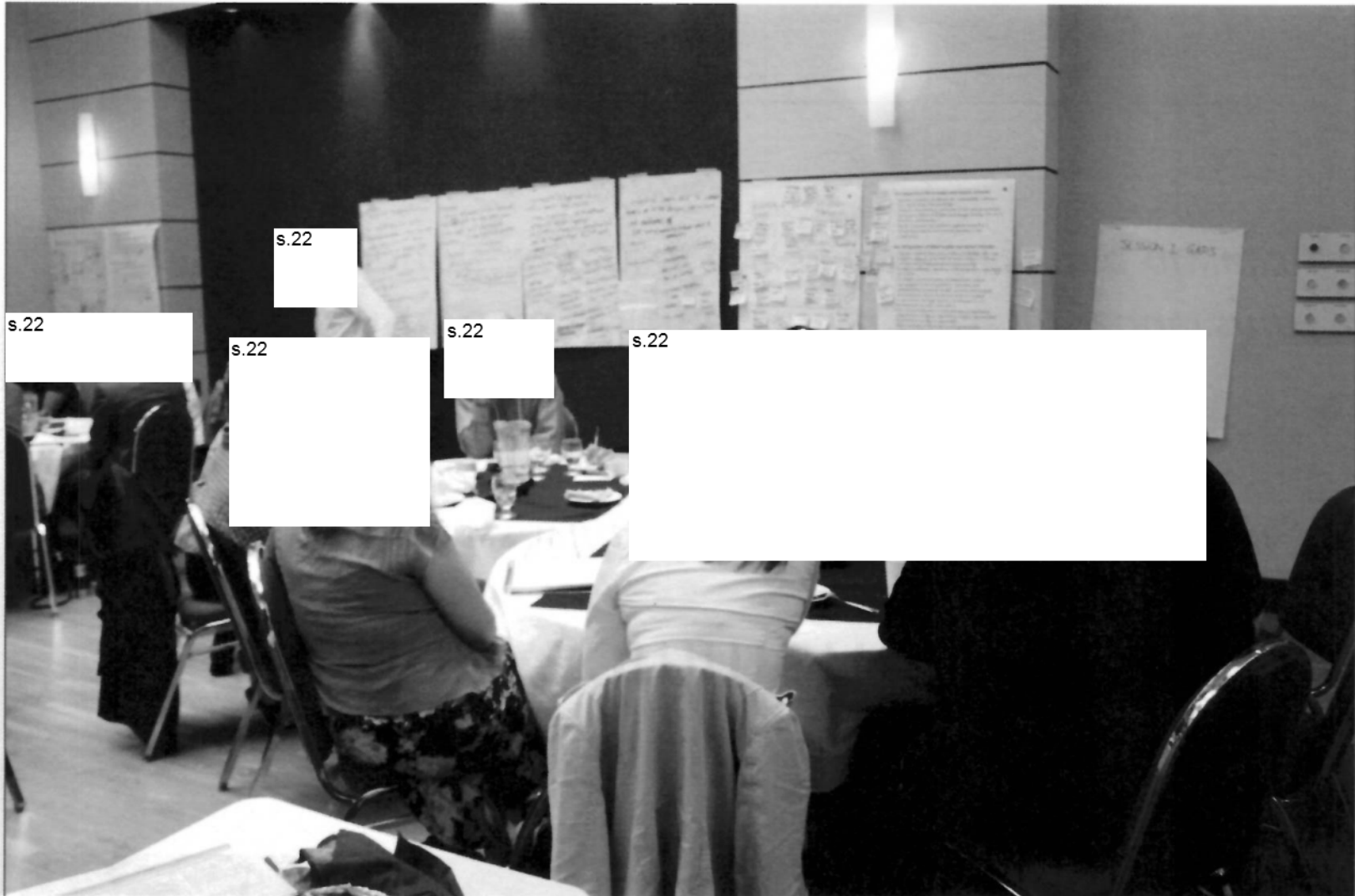
C3 Workshop Attendance


Day 1

- 21 community members present, 29 total attendees
- 6 Nations represented: Lake Babine Nation, Nak'azdli Whut'en, Wet'suwet'En Nation, Saik'uz First Nation, Xeni Gwet'in Nation, Nadleh Whut'en

Day 2

- 24 community members present, 47 total attendees
 - 6 Nations represented and the Carrier Sekani Tribal Council
 - 9 Industry representatives
 - 7 Government representatives
 - 2 Amnesty International representatives
 - 2 Highway of Tears initiative representatives
-





Workshop comments

- *Creating awareness with government and industry on a very intimate level*
 - *As a member, I would always remind those in leadership to keep the motto: “safety of our people first and always before asset”*
-

C3 Key Issues

- Murdered and Missing Aboriginal Women Inquiry, Highway of Tears
- Poverty and racism continue to impact the lives of Aboriginal peoples
- Aboriginal women are disproportionately affected by violence, sexual assault, and abuse in Canada
- Industrial camps will interact with the social environment
- There is strong evidence that there are effects from co-location of construction camps with already vulnerable communities where there are clearly identified service gaps.



C3 Workshop – Concerns

- Aboriginal women are at their most vulnerable in small, remote communities;
 - They are disproportionately affected by violence, poverty, and illness and particularly vulnerable to new risks;
 - We are placing temporary construction camps that are described as “hyper-masculine” and “the wild west” beside them. Companies plan for no touch down.
 - C3 found that Aboriginal women are likely to bear the burden of impacts such as
 - unreported sexual assaults and violence;
 - higher rates of substance abuse and addictions in region;
 - least likely to get jobs, or to feel safe at their jobs and;
 - decreased access to already limited health and social services
-



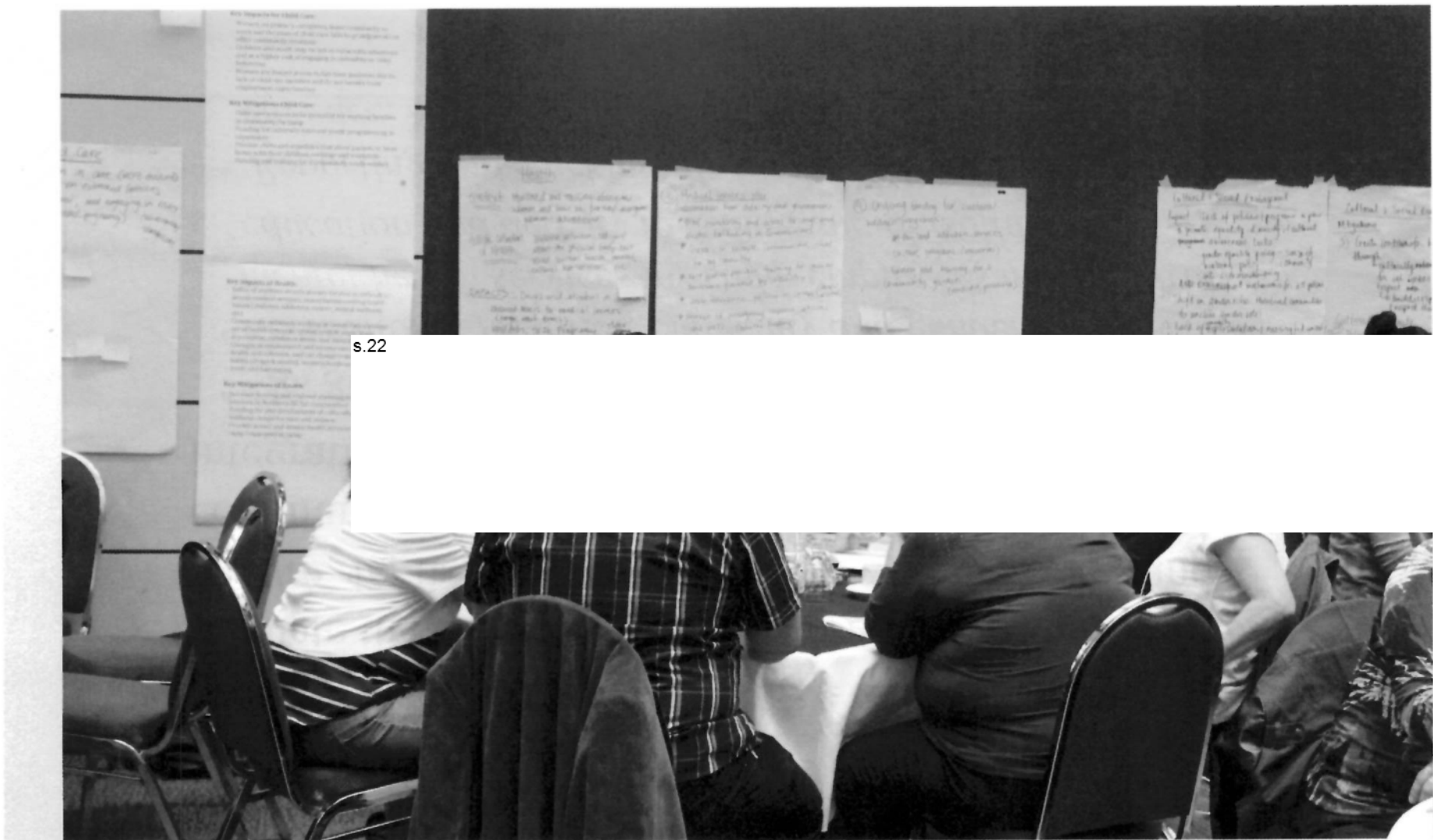
s.22

#1: MARR Accommodation Agreements and Essential Skills Training

- a. Province has negotiated a range of pipeline and reconciliation agreements
 - There is uneven practice of agreements in the north
 - Most of the agreements tie nations to provide their support to particular projects or to a regional economic development strategy
 - They should not be tied to consent, but to information building
 - Assurance that major projects or regional economic development will trigger agreements
 - b. Training and essential skills funding and programs reframed to include culturally-relevant delivery (e.g., numeracy is implemented through counting while harvesting fish or learning literacy through preparation of traditional foods).
-

#2: Ministry of Health

- Update the *Industrial Camps Regulations* in the *Public Health Act* using a gender-focus, where worker and community wellness is considered, as well as cultural integration
 - *e.g., guidance on separate dorm rooms for women*
 - *Recreational facilities, culturally and gender appropriate mental health services for camp employees and cultural education and activity to reduce social isolation*
 - *Reporting and tracking illness, as well as cases assault and violence, STIs, mental health, etc.*
-



3: EAO and Regulators

Improving the Assessment Process

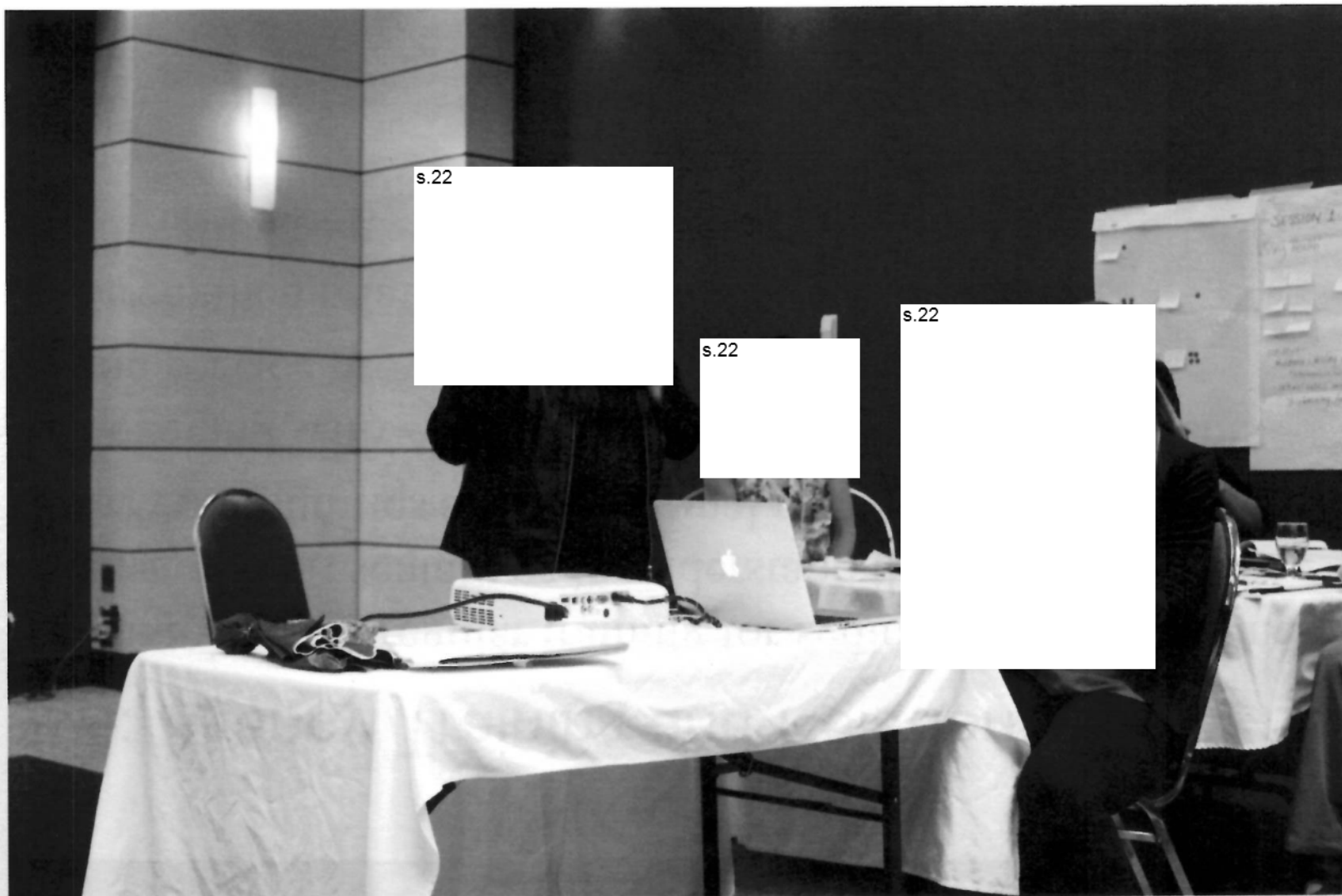
- Assess using a culturally-relevant gender-based lens to address impacts that are gender-specific and often overlooked
 - “Get granular” or ensure the scale of analysis is at the community level and includes community collaboration and concerns
 - Service-delivery focus, paired with the community-level focus, is also vital: health support, community outreach and youth workers, rape kits, emergency response plans, and reserve housing to prepare for a potentially significant in-migration
 - A social and health focus with a broader list of valued components, e.g., cultural continuity and culture at the industrial site.
-

3: EAO and Regulators

- Issue guidance on vulnerability and camps
 - Flagging system for level of effort required for vulnerable contexts – e.g., camp size, camp location, and vulnerabilities of community requiring a higher level of diligence
 - For sub-threshold work camps, the regulators should have guidance on best practices to inform their decisions and fully consult with affected communities
 - Estimations of significance by community should be given weight by the EAO
-

4: Agency Training and Relationships

- Ongoing and regular training for senior management and agency representatives to understand the cultural lens of the communities and Aboriginal rights
 - Engaging with Aboriginal communities as governments and service providers
 - Strengthen relationships to industry and promote education (e.g., promoting a rights and relationship-based approach)
-



#5: Ensuring Increased Enforcement

- Socio-economic effects and management planning needs a gender lens, local approach and community monitoring
 - Integration required, because reserve issues not treated
 - Including Aboriginal involvement (e.g., environmental and social stewardship initiatives)
 - EAO Compliance and Enforcement Branch
 - Need Nation-based engagement process for compliance and inspection and evaluate culturally appropriateness
 - *Promote education on roles, responsibilities, and mandate*
 - Grievance mechanisms (provincially, nationally?)
-

#6: Inter-agency Committee Model

- The Crown has a responsibility to create an enabling environment for Aboriginal people to succeed
 - Social monitoring system to be ongoing, not project-specific, and linked to identifying vulnerabilities
 - Regional level research and planning on violence against Aboriginal women, community wellness, family breakdowns, and childcare,
 - Regional level research to identify baseline health indicators
-

#6: Inter-Agency Committee Model

- RCMP relationship building and response (e.g., sex and drug trafficking)
 - Improved child and family services (e.g., equitable funding for Aboriginal foster families of children in care, in-home culturally engaged supports)
 - Address health, recreation and cultural needs (e.g., Mental health, doctors, assault, youth cultural programs, facilities)
 - Community emergency response plan (e.g. emergency vehicles and staff)
 - Evaluate regional funding allocated to Health agencies to accommodate camp workers and shadow population
 - Improved road safety (e.g., Northwest Readiness Committee)
-



Lake Babine Nations' Preparedness Plan

- LBN hired two interns to work closely with Community Responders on Emergency Preparedness Plan
 - Service gaps, scenario building, crisis line, collaboration with health agencies, victim support, emergency vehicles, RCMP collaboration.
 - Integrate preparedness into Environmental Assessment Process?
 - Would like to find ways to involve provincial government and partners in the emergency preparedness response plan
-



#7: Strengthening Relationships for

Preparedness: Ambulance, RCMP, Housing

- Connection between Federal services and industrial impacts in the area are weak (Fisheries, Housing, etc)
 - Request linking in to networks to rebuild relationships of trust
 - RCMP & housing & infrastructure
 - Financing is fixed, not connected to in-migration and shadow population
 - MARR could commit to strengthening networks and accountabilities
-



Closing Remarks

- Thanks to Ministry of Natural Gas and MARR for funding
 - This is the beginning of a strong program of work to strengthen women and to develop preparedness plans
-

VERNA

- The delicate turning of this leaf.

- We need to save the child of today & tomorrow ~~the~~ - save the child rather than repair the adult

- roll the carpet out under the children

Ann
① Drugs + alcohol

- discontinuity in services

- people fear for job when they seek treatment

- they come home and there is little

support.

Community

Well-being like programs

bring together & will

under together with

addiction in

Company

1. Policies and education on treatment

that ~~the~~ ^{can} people to keep their jobs

2. Dry camps - or 6 clear policies

Government 3. Health & safe workers.

Education - pay off / help 3

with friends is mostly

movement focused on addiction, education

with all 100% to support business

provide additional mental health

support

Small business is hard and is a result of poverty and racism.

often to services, no healthcare

or health support

in place in place, no coordination

not to trust that RCMP will

respond

support

support

support

support

support

support

support

support

support

support

s.22

Stearn, Anne HLTH:EX

From: Brown, Stephen R HLTH:EX
Sent: Thursday, August 20, 2015 7:05 AM
To: Foran, Grace E HLTH:EX
Cc: Obee, Sarah F HLTH:EX
Subject: RE: STEVE: Direction pls

Let's get them in at 11.45. Sarah can you get a call set up with Derek for tomorrow. Also Sarah can you get me together with John Jacobson s.13 – I have talked to him and he knows about the topic – 30mins should do it. Thks Steve

From: Foran, Grace E HLTH:EX
Sent: Wednesday, August 19, 2015 4:59 PM
To: Brown, Stephen R HLTH:EX
Cc: Obee, Sarah F HLTH:EX
Subject: STEVE: Direction pls

Steve: PPH is *positively clamouring* to brief you on this topic BEFORE you speak with Derek Sturko (this will be third email I've received from them ☺ asking to brief you) further to the email Anne Stearn sent to you last week (attached). Please let Sarah or me know if you are need a briefing with PPH staff (Silas in Arlene's absence) on this topic before you approach Derek s.13

A grateful us.

From: Cowan, Darynn HLTH:EX
Sent: Wednesday, August 19, 2015 3:35 PM
To: Foran, Grace E HLTH:EX
Subject: FW: s.12,s.13,s.14

Arlene's recommendation....

Darynn Cowan | Executive Coordinator, Assistant Deputy Minister's Office, Population and Public Health, Ministry of Health | P: 250.952.1468 | F: 250.952.1713

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From: Paton, Arlene HLTH:EX
Sent: Wednesday, August 19, 2015 3:29 PM
To: Cowan, Darynn HLTH:EX
Subject: s.12,s.13,s.14

Please make sure that Steve gets briefed before meeting with Agri DM, thx!

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Cowan, Darynn HLTH:EX
Sent: Tuesday, August 18, 2015 10:52 AM
To: Paton, Arlene HLTH:EX; Lambert, Tim HLTH:EX

Cc: Brownsey, Silas HLTH:EX
Subject: s.12,s.13,s.14

Fyi...

Darynn Cowan | Executive Coordinator, Assistant Deputy Minister's Office, Population and Public Health, Ministry of Health | P: 250.952.1468 | F: 250.952.1713

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From: Foran, Grace E HLTH:EX
Sent: Tuesday, August 18, 2015 10:32 AM
To: Marr, Ann HLTH:EX; Andrachuk, Andrea HLTH:EX; Cowan, Darynn HLTH:EX
Cc: Simonson, Kathy HLTH:EX; Stearn, Anne HLTH:EX
Subject: s.12,s.13,s.14

s.12,s.13,s.14

Regards, g.

From: Marr, Ann HLTH:EX
Sent: Tuesday, August 18, 2015 10:23 AM
To: Andrachuk, Andrea HLTH:EX; Simonson, Kathy HLTH:EX
Cc: Foran, Grace E HLTH:EX
Subject: s.12,s.13,s.14

Hello
s.12,s.13,s.14

s.12,s.13,s.14 Thanks very much.

From: Cowan, Darynn HLTH:EX
Sent: Tuesday, August 18, 2015 10:19 AM
To: Marr, Ann HLTH:EX
Cc: Foran, Grace E HLTH:EX
Subject: s.12,s.13,s.14

s.12,s.13,s.14

Darynn Cowan | Executive Coordinator, Assistant Deputy Minister's Office, Population and Public Health, Ministry of Health | P: 250.952.1468 | F: 250.952.1713

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From: Marr, Ann HLTH:EX
Sent: Tuesday, August 11, 2015 10:44 AM
To: Cowan, Darynn HLTH:EX
Cc: Thiessen-Wale, Katherine HLTH:EX
Subject: s.12,s.13,s.14

Hi Darynn

Arlene is not required to attend. What typically happens is that ministry OICs are packaged together and the titles are read out in Cabinet. It is seldom the case that questions are asked regarding an individual OIC but if this occurs the responsible minister would be expected to respond. Thanks Darynn.

From: Cowan, Darynn HLTH:EX
Sent: Tuesday, August 11, 2015 9:18 AM
To: Marr, Ann HLTH:EX
Subject: s.12,s.13,s.14

Hi Ann...can you please let me know the time so we can put a hold in Arlene's calendar (assuming her attendance would be required?)

Thx so much!

Darynn Cowan | Executive Coordinator, Assistant Deputy Minister's Office, Population and Public Health, Ministry of Health | P: 250.952.1468 | F: 250.952.1713

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From: Paton, Arlene HLTH:EX
Sent: Monday, August 10, 2015 5:39 PM
To: Lambert, Tim HLTH:EX; Cowan, Darynn HLTH:EX
Subject: s.12,s.13,s.14

Darynn, please note this date in my calendar (confidentially, thanks.).

Regards,

Arlene Paton
Assistant Deputy Minister
Population and Public Health
Ministry of Health
PO Box 9646 Stn Prov Govt
Victoria BC V8W 9P1
Tel: 250-952-1731

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From: Cowan, Darynn HLTH:EX
Sent: Monday, August 10, 2015 10:57 AM
To: Paton, Arlene HLTH:EX; Lambert, Tim HLTH:EX
Subject: s.12,s.13,s.14

Fyi...

Darynn Cowan | Executive Coordinator, Assistant Deputy Minister's Office, Population and Public Health, Ministry of Health | P: 250.952.1468 | F: 250.952.1713

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From: Andrachuk, Andrea HLTH:EX
Sent: Monday, August 10, 2015 10:42 AM
To: Cowan, Darynn HLTH:EX
Cc: Marr, Ann HLTH:EX; Foran, Grace E HLTH:EX
Subject: s.12,s.13,s.14

Hi Darynn,
s.12,s.13,s.14

Many thanks,

Andrea Andrachuk | Manager/Executive Operations
Office of the Deputy Minister
Ministry of Health

P: 250.952.1908 | C: 250.217.3655 | email: andrea.andrachuk@gov.bc.ca

From: Cowan, Darynn HLTH:EX
Sent: Monday, August 10, 2015 10:38 AM
To: Andrachuk, Andrea HLTH:EX
Cc: Marr, Ann HLTH:EX; Foran, Grace E HLTH:EX
Subject: s.12,s.13,s.14

s.12,s.13,s.14

Thx so much!

Darynn Cowan | Executive Coordinator, Assistant Deputy Minister's Office, Population and Public Health, Ministry of Health | P: 250.952.1468 | F: 250.952.1713

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From: Paton, Arlene HLTH:EX
Sent: Friday, July 24, 2015 6:00 PM
To: Cowan, Darynn HLTH:EX; Andrachuk, Andrea HLTH:EX
Cc: Marr, Ann HLTH:EX
Subject: s.12,s.13,s.14

Regards,

Arlene Paton
Assistant Deputy Minister
Population and Public Health
Ministry of Health
PO Box 9646 Stn Prov Govt
Victoria BC V8W 9P1
Tel: 250-952-1731

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From: Cowan, Darynn HLTH:EX
Sent: Tuesday, July 21, 2015 12:52 PM
To: Andrachuk, Andrea HLTH:EX
Cc: Marr, Ann HLTH:EX; Paton, Arlene HLTH:EX
Subject: s.12,s.13,s.14

s.12,s.13,s.14

Darynn Cowan | Executive Coordinator, Assistant Deputy Minister's Office, Population and Public Health, Ministry of Health | P: 250.952.1468 | F: 250.952.1713

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From: Andrachuk, Andrea HLTH:EX
Sent: Tuesday, July 21, 2015 12:34 PM
To: Cowan, Darynn HLTH:EX
Cc: Marr, Ann HLTH:EX
Subject: s.12,s.13,s.14

Hi Darynn,
s.12,s.13,s.14

Many thanks,

Andrea Andrachuk | Manager/Executive Operations
Office of the Deputy Minister
Ministry of Health

P: 250.952.1908 | **C:** 250.217.3655 | **email:** andrea.andrachuk@gov.bc.ca

From: Marr, Ann HLTH:EX
Sent: Tuesday, July 21, 2015 12:24 PM
To: Andrachuk, Andrea HLTH:EX
Subject: s.12,s.13,s.14

Hi Andrea
s.12,s.13,s.14

Stearn, Anne HLTH:EX

From: Paton, Arlene HLTH:EX
Sent: Tuesday, October 1, 2013 5:26 PM
To: Lake, Terry HLTH:EX; Loiacono, Sabrina HLTH:EX
Cc: Brown, Stephen R HLTH:EX; Cowan, Darynn HLTH:EX
Subject: s.13
Attachments:

s.13

Regards,

Arlene Paton
Assistant Deputy Minister
Population and Public Health
Ministry of Health
(250) 952-1731

Page 033 to/à Page 067

Withheld pursuant to/removed as

s.13

PPH
HAD

MINISTER'S OFFICE
HEALTH

946539

DRAFT ☐
REPLY ☐ OCT 12 2012
FYI ☒ ☐ REPLY DIRECT
☐ FILE

REMARKS

☐ AA ☐ MA ☐ GA
☐ EA ☐ CCU ☐ DM

October 9, 2012

Ministry of Health
Deputy Minister Graham Whitmarsh
5 - 3, 1515 Blanshard Street
V8W 3C8

Re: Understanding the State of Industrial Camps in Northern BC: A Background Paper

Dear Mr. Whitmarsh:

I am pleased to enclose an advance copy of a new background study produced by Northern Health regarding industrial camps in northern BC.

Over the past four years, Northern Health has conducted two surveys regarding economic development in the North to assist us in planning for potential population changes that could impact health care service needs within our service delivery areas. While we have always known that one feature of the northern B.C. economy is a high level of industrial camp activity, we have also recognized that little is known about this phenomenon. Thus we felt it would be useful to gain a better understanding of industrial camp activity.

The background paper attached contains a wealth of information and gives us an excellent overview of the extent of industrial camp activity. The study raises many questions that will require further research, including a better understanding of the impact of industrial camp activity on current health services.

This study will be made public at the October 17th meeting of the Northern Health Board. On the 15th it will be shared with representatives of the northern B.C. Regional Hospital Districts during our joint planning activities.

We also consider it appropriate that you have advance access to this groundbreaking research which we expect will receive some media attention upon its release.

If you have any questions, comments or concerns or wish to have a conversation with Northern Health on this important issue, please do not hesitate to contact us directly.

Sincerely,



Dr. Charles Jago, C.M.
Board Chair

cc: Cathy Ulrich, CEO
Dr. Ronald Chapman, Chief Medical Health Officer
Barbara Korabek, Assistant Deputy Minister

Currie, Patty L HLTH:EX

From: Minister, HLTH HLTH:EX <HLTH.Minister@gov.bc.ca>
Sent: Thursday, October 18, 2012 9:07 AM
To: Health, HLTH HLTH:EX
Subject: FW: Northern Health - Industrial Camps Background Paper
Attachments: 20120924_Industrial_Camps_Background_Paper_V1 Comb.pdf; 2012-10-03 Minister of Health Letter M MacDiarmid.pdf

From: Chipman, Desa[SMTP:DESA.CHIPMAN@NORTHERNHEALTH.CA]
Sent: Thursday, October 18, 2012 9:06:17 AM
To: Minister, HLTH HLTH:EX
Subject: FW: Northern Health - Industrial Camps Background Paper
Auto forwarded by a Rule

Good morning,

As requested the second attachment is being resent. Please contact me should you have any further issues.

Thank you,
Desa Chipman, EA to CEO & Board
Northern Health
565-2922

From: Health, HLTH HLTH:EX [mailto:HLTH.Health@gov.bc.ca]
Sent: Wednesday, October 17, 2012 11:13 AM
To: Chipman, Desa
Subject: FW: Northern Health - Industrial Camps Background Paper

Hello: We were unable to read the second attachment. Can you please resend? Thank you.

Valentina Cambiazo
Issues Assessment and Liaison Analyst
Correspondence and Documents Management
Ministry of Health
5-2, 1515 Blanshard St.
Victoria, BC V8W 3C8 Tel: (250) 952-2264

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From: Minister, HLTH HLTH:EX [mailto:HLTH.Minister@gov.bc.ca]
Sent: Wednesday, October 10, 2012 12:25 PM
To: Health, HLTH HLTH:EX
Subject: FW: Northern Health - Industrial Camps Background Paper

From: Chipman, Desa[SMTP:DESA.CHIPMAN@NORTHERNHEALTH.CA]
Sent: Wednesday, October 10, 2012 12:24:40 PM
To: Minister, HLTH HLTH:EX
Subject: Northern Health - Industrial Camps Background Paper
Auto forwarded by a Rule

Good afternoon,

On behalf of Dr. Charles Jago, Northern Health Board Chair, attached is an advance copy of a new background study produced by Northern Health regarding industrial camps in northern BC. The original letter and study will follow via Canada Post today.

Thank you,

Desa Chipman
Executive Assistant to CEO & Board
Northern Health
600 - 299 Victoria St, Prince George, BC, V2L 5B8
Tel: 250.565.2922
Fax: 250.564-7196
www.northernhealth.ca
www.facebook.com/NorthernHealth
www.twitter.com/Northern_Health
www.youtube.com/NorthernHealthBC

the northern way of caring

The contents of this electronic mail transmission are PRIVILEGED, intended to be CONFIDENTIAL, and for the sole use of the designated recipient. If this message has been misdirected, or if a resend is desired, please contact the sending office as soon as possible.

October 9, 2012

Honourable Dr. Margaret MacDiarmid
Minister of Health
Room 346 - Parliament Buildings
Victoria, BC
V8V 1X4

Re: Understanding the State of Industrial Camps in Northern BC: A Background Paper

Dear Honourable Dr. MacDiarmid:

I am pleased to enclose an advance copy of a new background study produced by Northern Health regarding industrial camps in northern BC.

Over the past four years, Northern Health has conducted two surveys regarding economic development in the North to assist us in planning for potential population changes that could impact health care service needs within our service delivery areas. While we have always known that one feature of the northern B.C. economy is a high level of industrial camp activity, we have also recognized that little is known about this phenomenon. Thus we felt it would be useful to gain a better understanding of industrial camp activity.

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We also consider it appropriate that you have advance access to this groundbreaking research which we expect will receive some media attention upon its release.

If you have any questions, comments or concerns or wish to have a conversation with Northern Health on this important issue, please do not hesitate to contact us directly.

Sincerely,



Dr. Charles Jago, C.M.
Board Chair

cc: Cathy Ulrich, CEO
Dr. Ronald Chapman, Chief Medical Health Officer
Graham Whitmarsh, Deputy Minister

DRAFT

Understanding the State of Industrial Camps in Northern BC:

A Background Paper

Version 1: September 24, 2012



northern health

the northern way of caring

DRAFT

For further information about this position statement, please contact:

Greg Thibault, Manager, Public Health Protection
Northern Health
Telephone: 250-645-6236
Email: greg.thibault@northernhealth.ca

Northern Health Corporate Office
Suite 600, 299 Victoria Street,
Prince George, BC Canada V2L 5B8
General enquiries: 1-866-565-2999 or 250-565-2649
www.northernhealth.ca

Acknowledgements:

We would like to thank the following people from Northern Health and other organizations for their insights and contributions to this report and appendices: Kelly Giesbrecht, Greg Thibault, Chelan Zirul, Dr. Charl Badenhorst, Crystal Brown, Dr. David Bowering, Dale Chen, Sabrina Dosanjh, Brandon Grant, Jim Green, Doug Quibell, Dionne Sanderson, Shane Waddell, Angela Wheeler and Dr. Ronald Chapman.



northern health
the northern way of caring

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Key to Abbreviations

EAO	Environmental Assessment Office
EHO	Environmental Health Officer
HSDA	Health Service Delivery Area
ICMM	International Council on Mining and Metals
LRDW	Land and Resource Data Warehouse

MAC	Mining Association of Canada
MEM	Ministry of Energy and Mines
MFLNRO	Ministry of Forests, Lands and Natural Resource Operations
OHS	Occupational Health and Safety
OGC	Oil and Gas Commission



1.0 Introduction

As resource development in Northern Health's region increases, more industrial camps are established. Industrial camps are a combination of workplace and living space settings that are prevalent in Northern Health's service delivery area. When considering the determinants of health in a population health approach, industrial camps are an important work setting that merit attention and health resources.ⁱ However, the impacts on the health of the workers staying in the camps, health services and surrounding communities are not well-known or understood. Northern BC is a unique place, with diverse and complex local circumstances.ⁱⁱ Industrial camps in this region present altogether unique and challenging issues; therefore, context-specific information, strategies and initiatives need to be developed to address the delivery of health services and health promotion initiatives in this setting.

Outlined in this report are preliminary background information and focus areas for developing guidance and recommendations for Northern Health to address industrial camp settings. At the outset, the goal of this first report was to provide a profile of industrial camps in Northern BC and to identify existing health promotion research and best practices specific to upstream risk factors. However, the scope of this report has evolved and expanded beyond this initial focus. Through this work broader issues and challenges for Northern Health related to industrial camps are identified, including:

- Implications for health care infrastructure and use of services.
- Mental health and overall well-being of workers and their families.
- Problematic substance use and its impacts.
- Public health and communicable diseases.
- Social and health impacts on host communities.

2.0 Background

Industrial camps provide workers with food and lodging at a work site,ⁱⁱⁱ are established to staff remote mining operations^{iv} or are found near drilling and exploration sites closer to communities.^v These camps are a cost effective way of accommodating workers^{vi} and are used by companies to house an increasingly mobile and transient workforce for their short-term and long-term operations.^{vii} There are different definitions of and terms for industrial camps, including: work camp,^{viii} fly-in/fly-out,^{ix} drive-in/drive-out and commuter camps.^x For the purposes of this report, we use the term industrial camps to encompass any camp established to house workers in relation to a forestry, mining or oil and gas operation whether in a remote location or close to a community and accessible by road, rail, air or water.

2.1 Northern Health and Industrial Camps

Specific to industrial camps, Northern Health is responsible for implementing and enforcing environmental and public health regulations as outlined in the *Industrial Camps Health Regulation, Sewerage System Regulation and Drinking Water Protection Act and Regulations* as part of the *Public Health Act*.^{xi} Industrial camps are responsible for applying to Northern Health's Environmental Health Officers (EHOs) for drinking water, sewage and food services permits.



The industrial camp regulation is being revisited; however, it is unlikely that additional responsibilities regarding general health and wellness or health promotion will be included in any future versions. A camp health plan is being proposed although it only refers to the food, sewage, housing and water issues and asks for a procedure to address serious injury or illness. An additional statement is being considered in the guidelines asking that operators provide a balanced diet of sufficient quantity.^{xii} This is far from a comprehensive health plan but it indicates that the province is starting to move in a positive direction. It is clear from the issues and challenges identified in this document that the role for Northern Health regarding industrial camps, communities and health extends well beyond the responsibilities outlined in these regulations.

3.0 Understanding Industrial Camps in Northern BC

In Northern BC there are currently 1,809 industrial camp sites identified through several different sources. With the exception of logging camps, it is not known which camps are currently active, which ones may be scheduled for future development or which ones may be retired camp sites. These numbers do not include the smaller, more transient camps that are more difficult to track (exploration, silviculture). There are also 98 current or proposed major projects along with 11 operating mines and 27 proposed new ones which are or will likely be accompanied by more camps.

As a result of more industrial and resource development in Northern BC, more industrial camps are being established and are prevalent in Northern Health's service delivery area. It is increasingly difficult for Northern Health staff to identify and interact with the companies overseeing new and existing camps.^{xiii} Researchers and government personnel have also experienced difficulty in identifying and tracking these camps.^{xiv} Industrial camps do have some positive impacts in the region.^{xv} However, issues and challenges with respect to these camps illustrate significant concerns relative to the overall health of the workers and host communities.^{xvi} Regarding addressing upstream risk factors, some companies provide fitness equipment and healthy food options; any comprehensive health promotion initiatives or activities within the camps are not well-known.^{xvii}

3.1 Challenges in Developing a Profile

Constructing a complete profile of industrial camps in Northern BC is complex and challenging due to how different camps are reviewed, approved, regulated and permitted by various government agencies. The profile outlined in this section is based on best available information from public sources, government and Northern Health staff. The status of the number of camps, the number of workers being housed in the camps and their locations change almost daily and seasonally; therefore, it is difficult to continually construct complete profiles and lists of industrial camps and related companies. However, the information presented in this document is as comprehensive as possible and provides a valuable and insightful foundation for developing recommendations and next steps moving forward. For the purposes of this initial paper, we focus specifically on forestry, oil and gas and mining camps and related developments resulting in industrial camps.¹

¹ There are several other types of camps, including commercial recreation (guiding, fishing, hunting), agriculture and silviculture. These camps have been excluded for the purposes of this initial report. Some camps related to major projects (utilities, industrial expansion) that have been identified specifically by Northern Health staff and/or playing an integral role in the industrial development context are included in the map and lists of camps where appropriate.



Several sources of information were used to develop the maps and lists of industrial camps using publicly available data from the Land and Resource Data Warehouse (LRDW),² records from Northern Health EHOs and input from Ministry of Energy and Mines (MEM) inspectors (Appendices A and B). Oil and gas camps, forestry logging camps and work camps with drinking water licenses were identified and mapped using data from the LRDW. To try and fill the information gap regarding mining camps, information regarding current and anticipated mines in the area from the BC Mining Association's Mines Map³ was used with information from MEM staff. Northern Health EHOs compiled and provided lists of camps known to them with permits, companies and camps.

Several other sources were explored and requested from various ministries. However, data were not accurate, not easily cross-referenced or not received in time to be incorporated into this report. Details of these various sources of information are outlined in Appendix A. Some information gaps still exist; however, identifying all camps, companies and number of workers is time consuming. The information collected to date clearly shows an impacted population that would benefit from a directed health initiative. Northern Health resources are better spent developing an approach regarding health and industrial camps.

3.2 Northern BC Industrial Camp Profile (2012)

The profile of industrial camps in the Northern Health region is compiled from the sources of information list above. Maps were developed using information from the LRDW and subsequent lists of potential camps were generated from the same data. Information provided by the Northern Health EHOs, MEM inspectors and taken from the BC Mining Association is compiled separately.

All types of camps and related resource developments are found in all of Northern Health's health service delivery areas (HSDAs), with the exception of oil and gas camps which are confined to the Northeast HSDA. The 2012 information identifies 1,809 known camps in Northern Health.⁴ However, the number of currently active camps is not known. As seen in Table 1 and Map 1, ninety-eight (98) major projects ranging from clean energy, mining, oil and gas, resorts, utilities and other projects are identified and may also have associated industrial camps. There are 11 operating mines and another 27 anticipated new ones. Oil and gas camps dominate the Northeast HSDA. Forestry logging camps are the majority for the Northern Interior HSDA. In the Northwest HSDA, there are mainly forestry logging camps; however, there are 16 new mines proposed for the area.⁵

² Land and Resource Data Warehouse: www.lrdw.ca.

³ BC Mining Association's Mines Map: www.miningassociationbc.com/.

⁴ Some duplication may occur as all information provided through different sources was not and is not easily cross-referenced. It is important to note that some camps may not currently be active.

⁵ Individual HSDA maps are in Appendix C.



Table 1: Number of Industrial Camps* and Major Projects by Industry and HSDA - LRDW Information

Type	Northern Health	Northwest HSDA	Northern Interior HSDA	Northeast HSDA
Oil and Gas – Large	15	0	0	15
Oil and Gas – Medium	128	0	0	128
Oil and Gas – Small	1424	0	0	1424
Forestry Logging	108	18	43	48
Water Licenses	44	21	18	5
Identified by EHOs	90		20	16
<i>Major Projects**</i>	98	33	15	50
<i>Mines***</i>	38	19	9	10

* Based on best available information from the Land and Resource Data Warehouse. Some duplication may occur and some camps may not be active.

** Major projects engaged in various stages of the environmental assessment process.

*** Current and anticipated mines.

3.2.1 Northwest HSDA

Forestry logging camps are most common in the Northwest and EHOs have identified another 20 camps related to various industries. With the high level of current and anticipated major projects and new mines, the number of industrial camps is guaranteed to increase, particularly in remote locations. Northern Health staff attended meetings to discuss a proposed 10,000 person camps near Atlin, BC. This camp is expected to be established to service a number of mines proposed for the area once the Northwest Transmission Line is completed and power becomes available.^{xviii} For a map of industrial camps and major projects in the Northwest HSDA, see Appendix C.

3.2.2 Northern Interior HSDA

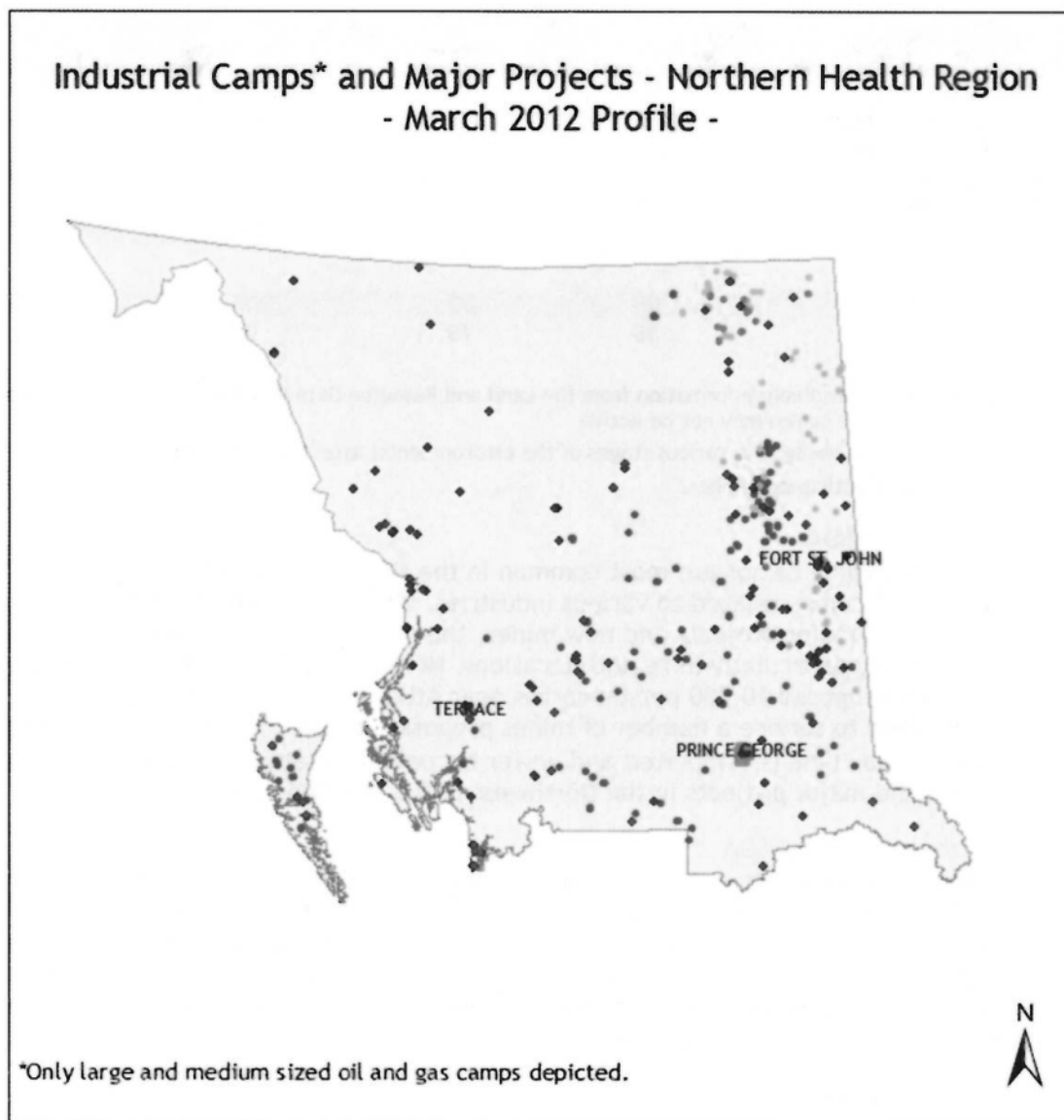
Forestry camps make up the majority of camps in the Northern Interior HSDA. There are 18 different silviculture companies working for 10 different licensees that likely have tree planting camps. Five operating mines with another 4 anticipated, as well as 15 major projects are either currently operating, under development or anticipated. EHOs identified another 16 camps. For a map of industrial camps and major projects in the Northern Interior HSDA, see Appendix C.

3.2.3 Northeast HSDA

The industry with the vast majority of camps in Northern Health and in the Northeast HSDA is oil and gas. There are 1,567 related camps identified and they have been divided into three categories based on their size. Forestry logging camps and camps with drinking water licenses are also found in the Northeast. EHOs have also identified several camps. There are 50 current or anticipated major projects for this area, as well as 10 mines (3 currently operating), likely resulting in the establishment of more camps. For a map of industrial camps and major projects in the Northeast HSDA, see Appendix C.



Map 1: Industrial Camps* & Major Projects - Northern Health Region, March 2012 Profile



Legend	
	Oil and Gas Camps - Large - Over 5ha - NH
	Oil and Gas Camps - Medium - 1 to 5ha - NH
	Forestry Logging Camps with Permits
	Camps/Work Camps with Water Licenses - NH
	Major Projects - NH - May Include Camps

- 1567 Oil and Gas Camps (only large & medium depicted)
 - 15 Large; 128 Medium; 1424 Small
- 108 Forestry Logging Camps with Special Use Permits
- 44 Camps or Work Camps with Drinking Water Licenses
- 98 Major Projects Identified - May include camps

Based on best available information.
 Some duplication may occur.

Source: This map is compiled using publicly available information from the Land and Resource Data Warehouse.
www.lrdw.ca

Author: Kelly Giesbrecht, KAGE Consulting

Date: 30/04/2012



3.3 Public Sector Stakeholders

Several public sector agencies oversee and approve permits, licenses and operations for resource developments and related industrial camps. Permits for resource development and related industrial camps are issued by the ministry or organization responsible for implementing and enforcing specific legislation and regulations. For example, permits for mines and related activities are issued by the MEM in different regions throughout BC. Special use permits for forestry logging camps and silviculture contracts are issued by the Ministry of Forests, Lands and Natural Resource Operations through local district offices. This section briefly outlines different public sector stakeholders and their roles related to industrial camps, and categorizes the industrial camps in two different types (see Figure 2).

Environmental Assessment Office (EAO)

www.eao.gov.bc.ca

Although not included in the diagram below, the BC EAO is an important government agency as it oversees the certification of major projects related to industrial, energy and mining projects (among others). The environmental assessment process is a harmonized process designed to avoid duplication of efforts in reviewing projects as required by both provincial and federal regulations.^{xxix} Northern Health staff are involved directly with some assessments by participating (when asked) and providing comments.^{xx} This process is currently undergoing some changes and more responsibility will fall to provincial regulators.^{xxi}

Ministry of Forests, Lands and Natural Resource Operations (MFLNRO)

www.gov.bc.ca/for/

This ministry oversees forestry activities in the province and houses departments that work with other ministries to permit a variety of resource development and industrial activities, including mining.^{xxii} Individual Forest District and BC Timber Sales offices are responsible for permitting forestry logging camps and entering into contracts with silviculture companies that may also establish camps.^{xxiii} Major Projects through FrontCounterBC is another division of MFLNRO that oversees the permitting of larger scale energy, mining, tourist resort, utilities and other types of projects.^{xxiv}

Ministry of Energy and Mines (MEM)

www.empr.gov.bc.ca

This ministry is responsible for overseeing the *Mineral Tenure Act*, *Coal Act* and *Mines Act* among other regulations. It oversees the approval of mining tenures and permitting in collaboration with MFLNRO (as above). Companies can secure tenures through *Mineral Titles Online*.^{xxv} Companies must get a *Mines Act* permit from a regional MEM office and are responsible for making sure their applications meet the standards of relevant legislation including the *Mines Act* and *Health, Safety and Reclamation Code for Mines in British Columbia*.^{xxvi} MEM issues multi-year permits and does not currently have the systems or capacity to track the status of industrial camps^{xxvii} which complicates their ability to make this information publicly available.

Figure 2: Types of Industrial Camps and Related Regulatory Stages

INDUSTRY	TENURE / CLAIM	PLANNING / EXPLORATION	ENVIRONMENTAL ASSESSMENT	OPERATIONAL	RECLAMATION / PLANTING
FORESTRY	TENURE ISSUED BY FOREST DISTRICT	LAYOUT	NOT APPLICABLE	LOGGING CAMPS - special use permits issued by individual forest districts	SILVICULTURE CAMPS - company secures permits outlined in contracts with individual forest districts
OIL AND GAS	TENURES ISSUED (THROUGH OIL & GAS COMMISSION - OGC?)	CAMPS - short term; small; transient; mobile; harder to track; permit required from OGC?	Yes - if triggered by regulation/legislation; opportunity for NH participation/input	CAMPS - permitted by OGC; longer term; permanent; larger; easier to track	CAMPS - permitted by OGC?
MINING	CLAIMS AND TENURES ISSUED ONLINE - Mineral Titles Online - Ministry of Energy and Mines	CAMPS - short term; small; transient; mobile; harder to track; permit required from OGC?	Yes - if triggered by regulation/legislation; opportunity for NH participation/input	CAMPS - permitted by MEM?; longer term; permanent; larger; easier to track	CAMPS - permitted by MEM?
OTHER MAJOR PROJECTS	TO BE DETERMINED - likely on a project by project basis	CAMPS - short term; small; transient; mobile; harder to track; permit required from responsible agency?	Yes - if triggered by regulation/legislation; opportunity for NH participation/input	CAMPS - permitted by responsible ministry?; longer term; permanent; larger; easier to track	CAMPS - permitted by responsible agency?
WORKSAFEBC - Responsible for overseeing and enforcing the Occupational Health and Safety Regulation (OHS) and promoting overall workplace health and safety related to camps. Part 25 refers to camps but no policies directly outlined.		NORTHERN HEALTH - Responsible for overseeing and enforcing regulations related to public and environmental health including: drinking water safety, food safety, sewage disposal			
TYPE ONE CAMPS - long term; larger; permanent; easier to track and permit; operational stage					
TYPE TWO CAMPS - short term; smaller; transient; harder to track and permit; exploration/silviculture stage					

Oil and Gas Commission (OGC)

www.bcogc.ca

The OGC is a one-stop regulatory agency overseeing the oil and gas industry, from exploration to development, pipeline transportation and reclamation. The *Oil and Gas Activities Act* includes requirements for related forestry activity, culture and heritage considerations and land, environment and water considerations as well.^{xxviii} Information gathered through the OGC applications portal, ePASS, makes up the data used in the maps and lists of industrial camps and related companies.

WorkSafeBC

www.worksafebc.com

WorkSafeBC is responsible for overseeing and enforcing the *Occupational Health and Safety Regulation* (OHS) and promoting overall workplace health and safety.^{xxix} Part 25 of the OHS is a section set aside specifically for *camps*. At the time of this report there are no specific policies listed other than reference to the *Industrial Camps Health Regulation* and a note indicating that: “The *Occupational Health and Safety Regulation* applies to camps to the extent they are workplaces in which workers such as cooks, maintenance people and others work.”^{xxx} The OHS regulation does not contain specific reference to upstream risk factors or general health and well-being; however, WorkSafeBC interacts with employers and may be an important partner and collaborator when moving forward with health promotion initiatives and activities.

3.4 Summary

The context of resource development and related regulatory processes for permitting, referrals, and notification regarding industrial camps is complex and involves many stakeholders. Industrial camps are also established at various stages of industrial development. It is difficult for all stakeholders involved in overseeing the activities of these camps to identify and track them, and to work together across ministries and organizations in an effective manner. Due to the volume of camps and the number of anticipated new industrial projects in the coming years, there is a sense of urgency to address health related impacts of industrial camps.

4.0 Industrial Camps and Health

Health promotion provided the focus for this initial paper and is defined as “the process of enabling people to increase control over, and to improve, their health.”^{xxxi} The literature review and environmental scan presented in this section focuses on identifying examples, case studies and best practices of health promotion specific to industrial camps, especially those aimed at addressing upstream risk factors. The review of research into industrial camps and health illustrates a number of issues and challenges related to the health of workers housed in these camps, as well as to the nearby *host* communities. The environmental scan of industry association, company, and health service provider websites shows mostly policies and practices emphasizing safety. However, some stakeholders have, or are engaged in, health promotion activities and related policies. Overall, it is clear that more information is needed, from and for all sectors, regarding best practices for health and industrial camps in Northern BC.

This literature review assists in identifying issues and challenges to be addressed by Northern Health moving forward. However, the lack of information and knowledge directly related to industrial camps and health, specifically in Northern BC, is glaring. This is decidedly a significant information gap to be filled through short-term and long-term information gathering and research endeavours.



As noted above, this literature review focused initially on gathering examples of health promotion and upstream risk factors in industrial camps. Library database searches included fly-in/fly-out, industrial camp, work camp, mining camp, forestry camp, oil and gas camp, rural health and rural health promotion. The results capture examples from mining and oil and gas, long-distance commuting, fly-in/fly-out and drive-in/drive-out camps in rural Australia, United States, Canada and Northern BC. A majority of the studies highlighted the importance of rural resource development and industrial camps in the global context. Although a number of positive impacts from resource development and related industrial camps are apparent, such as economic development, high wages and increased real estate values,^{xxxii} the focus of this initial report is the health promotion related challenges of industrial camps. From the research, the main challenges faced by workers and host communities, as well as some suggested solutions, are summarized in the following sections.

4.1 Issues and Challenges

The issues and challenges presented by industrial camps have implications for workers, the companies that employ them, their families and the host communities. Through this review we gain a better understanding of the nature of these challenges related to health and health promotion and an appreciation of the depth and breadth of the issues. Clear themes and linkages emerge that demonstrate the complexity of the industrial camps work setting.

4.1.1 Atmosphere of Industrial Camps

The atmosphere of industrial camps is something that both the literature and Northern Health staff^{xxxiii} note as having implications for the health of workers. The experiences and impacts noted here do not reflect the atmosphere of every industrial camp. The operators of camps acknowledge that health-related issues need to be addressed and try to do so with varying degrees of success.^{xxxiv} Workers housed on oil platforms (similar to the isolation of remote industrial camps) in the North Sea compared their accommodations to a prison-like setting because there was little to do on their down time.^{xxxv} Life in silviculture (tree planting) camps is described as lawless - having no curfews, speed limits, and no one to curtail the consumption of alcohol.^{xxxvi} Regarding oil and gas camps in the Fort St John, BC area, researchers noted an atmosphere of partying all night, where workers are introduced to and enter the *drug scene*, and where older partiers set the standard for new workers at the camps.^{xxxvii} Overall, these types of camps can have “negative consequences for individuals, families, and the communities where they live.”^{xxxviii} The very nature of Northern work sites may contribute to these problems and merits further investigation and attention.^{xxxix}

4.1.2 Health and Shift Work

The quality of work life and working conditions are important to the overall well-being of workers.^{xl} In operations related to industrial camps, workers are required to leave their homes and families for a set period of time, ranging from 12-18 hour workdays for shifts of 21-28 days^{xli} or as long as 42 days in camp with 14 days off^{xlii} or longer. Shift work impacts all aspects of health, including: obesity, depression, problematic use of substances (including alcohol),^{xliii} sleep disorders^{xliv} other types of illness and emotional distress.^{xlv} Shift work also puts pressure on workers' home life;^{xlvi} with not enough time at home to deal with domestic issues and too much time in camp (or on the oil platform) to think, this can lead to depression.^{xlvii}

Workers' jobs are stressful and often dangerous.^{xlviii} Another source of anxiety or stress for workers often is the fear that an injury would result in not being able to work, loss of pay and financial hardship.^{xlix} This is also highlighted as a concern in Northern Health's consultations with men.^l Overall, there is a lack of knowledge and understanding of job stresses and their consequences for rural workers' health.^{li}

4.1.3 Mental Health and Problematic Substance Use

Often mentioned in all sources of information related to health and industrial camps is the theme of a worker's state of mind and problematic substance use. As already mentioned, drugs and alcohol can be a prevalent part of life in these camps and workers in these camps can suffer from stress, anxiety and depression. These and other factors such as social isolation^{lii} and lack of integration among new or temporary workers and permanent residents of host communities^{liii} can lead to struggles with problematic use of substances.^{liv}

The use of drugs and alcohol is seen as a way of blowing off steam after work or a normal way of life during a shift workers' leave period and can also lead to familial tensions and problems.^{lv} Drug and alcohol use and impairment poses a risk for on-the-job accidents and injury, anxiety and emotional distress, as well as long-term health effects.^{lvi} Problematic substance use also impacts adjacent and host communities. Workers are "readily visible on their days off when they can be found engaging in selected vices in local hotels and bars."^{lvii} From 2004-2005, the Peace Region in Northeast BC had the second worst serious drug offence rate in the province.^{lviii}

4.1.4 Impact on Health Services

Rural and remote communities in Northern BC already struggle to provide social welfare and health care services.^{lix} An ageing rural population, coupled with increased industrial activity and rapid population growth from an influx of new workers places increased demands on and overwhelms existing infrastructure and health services.^{lx} Places like Fort McMurray, AB, are trying to cope with explosive growth and its demands on their health care system along with labour shortages with respect to hospital and public health staff.^{lxi} Some camps and companies hire their own physicians;^{lxii} however, often the focus is on getting workers back to the job rather than looking at health promotion and prevention.^{lxiii}

Lack of personnel and capacity to meet this increased demand has also been identified by Northern Health staff as an important issue regarding the increased number of industrial camps and workers.^{lxiv} The seasonal nature of resource development and extraction and influxes of workers during these periods places additional stresses on health services and related human resources capacities. These periods of increased access to health services have been documented in Northeast BC.^{lxv} However, access to health care services may be an issue for some workers. One study noted that "provincial policies on health care insurance and workers' compensation may affect the availability of and access to health services [such as general health exams] in host communities."^{lxvi}

4.1.5 Public Health and Communicable Disease

Although public health (sanitation, etc) and communicable disease were not a focus of the initial literature review, they are mentioned in the research. Communicable disease was also identified as a topic of concern from Northern Health staff.^{lxvii} One study noted that personal hygiene in the silviculture (tree planting) camps is "often mediocre."^{lxviii} International studies on sexually transmitted diseases in temporary migrant workers suggest that this "may be an important health concern relevant to the context of intra-national Canadian [worker] mobility as well."^{lxix} One study focused specifically on sexually transmitted infections (STIs) and young oil and gas workers in a community in Northeast BC. They found high and increasing rates of STIs linked to a highly mobile workforce and related to factors such as drug and alcohol bingeing.^{lxx} Sanitary conditions and transmission of disease and infection are also important issues meriting further attention.

4.2 Suggested Solutions

The research presented here identifies many negative impacts of industrial camps, but little is said in terms of how to address these impacts in a positive way. Solutions covering three of the main themes are suggested from the research.

4.2.1 Mental Health First Aid

Some research suggests that workers are reluctant to access support for mental health and substance use due to embarrassment, the fear of losing their employment and concerns with trust and confidentiality, or they may not be aware of the services available through their employer.^{lxxi} Workers may instead seek more information support from their peers. One suggested best practice is to strengthen this through a mental health first aid program.^{lxxii}

4.2.2 Comprehensive Problematic Substance Use Policies and Programs

A suggested solution for drug and alcohol use is comprehensive corporate policies and related programs, which companies can and do implement (see Section 4).^{lxxiii} However, even with extensive corporate policies and many designated dry camps, drug and alcohol use are still prevalent in this setting.^{lxxiv} One author noted that: "It is unlikely...that those [workers] at risk would pay the slightest attention [to these types of policies],"^{lxxv} indicating a bigger challenge regarding behaviour change.

4.2.3 Health Care Collaboration and Partnership

It is suggested that partnerships between a variety of stakeholders such as public health, community organizations, industry and government ministries as a way of addressing "some of the adverse social and health impacts of a boom in a resource-dependent community."^{lxxvi} This will require the development of new relationships with companies and other stakeholders,^{lxxvii} as well as innovative strategies and solutions to address a complex set of issues.

4.3 Public/Private Health Promotion Practices

An environmental scan of industry association, individual company and health sector websites in Canada and Australia was conducted (Appendix D).⁶ The scan focused on Northern regions, to identify any existing best practices regarding health promotion in industrial camps.⁷ Overall, where health promotion policies are in place or being developed they are more general in nature and do not outline industrial camp setting specific practices. These sources are also potential contacts for and partners in health promotion strategies moving forward.

4.3.1 Industry Associations: Canada & Australia

Mining, oil and gas and forestry industry association websites in Canada and Australia were searched for any policies and practices regarding health promotion. The policies were also searched for practices that specifically targeted industrial camps. All Australian associations were contacted via email asking if they had any health promotion policies and any that were directed towards industrial camps. Health Coordinators for Chevron Australia and Chevron Canada responded and provided available health promotion policies. A recent publication for managers and supervisors in oil and gas field operations developed by two international oil and gas associations is promising in terms of identifying some of the underlying risk factors related to overall health (such as fitness), as well as issues arising related to a mobile workforce.^{lxxviii} The International Council on Mining and Metals (ICMM) is leading some health promotion work and

⁶ When looking at the health sector, examples from Alberta, Ontario and Australia were considered.

⁷ The environmental scan of industry and industry association websites focused solely on health promotion information, strategies and initiatives. The scope for the second paper will be expanded, where possible, to include other areas such as primary care, emergency and trauma care and mental health services and support.

promotes health impacts assessments on their website.^{lxxxix} Similarly, the Mining Association of Canada (MAC) has both a safety and health protocol and framework that identify health promotion as important to industry operations.^{lxxx}

4.3.2 Northern BC Companies

The websites of the top five companies in each industry affiliated with industrial camps in Northern BC were scanned for health promotion policies and practices. Again, where policies were made available on their websites, the focus is mainly on worker and workplace safety. One company specifically identified work camp safety inspections in relation to ensuring that standards for water quality, noise and chemical exposures were being met.^{lxxxi} Imperial Oil also has a general health policy that refers to fitness of workers and the provision of voluntary health promotion programs related to worker productivity; however, it also indicates that these programs supplement other health care and that employees are “responsible for their own health care and [for] their relationships with personal physicians.”^{lxxxii} Other companies highlight health and safety in their vision or mission,^{lxxxiii} have a health and safety committees^{lxxxiv} or have health and safety listed as part of their corporate social responsibility.^{lxxxv} Of these companies, it appears that the one with the best practices regarding health and health promotion is a contractor - Bechtel Corporation. A search of their website for topics related to health resulted in several publications and factsheets, including: *You and Your Health*^{lxxxvi} and *Health Tips for Men*,^{lxxxvii} discussing diet, exercise and healthy weights. Northern Health staff also noted that this contractor promotes healthy eating in their Kitimat facility.^{lxxxviii}

4.3.3 Health Sector: Public Health & Health Promotion

As expected, the health sectors in Alberta, Ontario, Western Australia and Queensland Australia have health promotion and mental health programs and initiatives. Some are more developed than others and some even have a rural component. However, the searches did not identify any health promotion best practices specific to industrial camps. All health sectors have programs that address public health and communicable disease. The only mention of work camps is in relation to public health inspectors.^{lxxxix} Alberta Health Services’ general health and wellness information on their website is somewhat limited.^{xc} The Government of Western Australia’s second health promotion framework covers 2012-2016, building on the previous one for 2007-2011, and addresses the same risk factors that Northern Health is focusing on: weight and obesity, nutrition, physical activity, tobacco use and harmful levels of drinking.^{xc}

4.3.4 Health Sector: Mental Health and Problematic Substance Use

There are two examples of programs targeting men and/or those that work in industry to support to provide them with access to mental health and substance use problems. Western Australia’s Mental Health Commission is working with a variety of stakeholders to improve access to mental health related services in rural and remote areas; there is a new facility specifically for men with mental health and drug and alcohol problems.^{xcii} In Grande Prairie, AB, there is a *Northern Addictions Centre* (aka the Business & Industry Clinic) that assists other service providers to “reintegrate employees back into the workplace.”^{xciii} These approaches could be coupled with the idea of mental health first aid at the industrial camp sites as suggested in the literature review.

4.4 Industrial Camps and Health: A Summary

The literature review of rural health promotion research and examples specific to industrial camps was very useful for identifying related issues and challenges. It supports issues raised by Northern Health staff. The emphasis of the information was on identifying negative impacts well beyond the scope of public health and health promotion, without many suggestions for how to address these impacts. It is glaringly apparent that more information is needed about industrial



camps in Northern BC in order to develop overall health service delivery and health promotion related strategies and partnerships with other stakeholders. Through the environmental scan, we found that both public and private stakeholders generally have policies on workplace health and safety and that some are working on aspects of health promotion. Although there does not appear to be anything specific to industrial camps, there could be opportunities to work with private sector associations and companies already thinking about or engaged in health promotion work to develop best practices. There could also be opportunities to work with these groups to address other impacts of industrial camps on primary care, emergency services and trauma care, and community health services.

5.0 Conclusion and Next Steps

In conclusion, through the information presented in this report we have demonstrated the complex and unique nature of industrial camps in Northern BC. The level of current and proposed industrial and resource development activity for the area, and the mobile and transient nature of the workforce means that industrial camps will continue to be established and exist in Northern Health's area. Working together with other stakeholders to identify these camps, collaborate on strategies and initiatives and to minimize negative impacts and promote positive impacts on workers and host communities is a way forward.

5.1 Next Steps - Providing Guidance and Recommendations

It is difficult to develop appropriate health care initiatives and strategies to address the challenges presented by industrial camps without adequate information. These next steps focus on developing comprehensive, setting- and context-specific guidance regarding health care, health services and industrial camps for Northern Health. The biggest lesson learned through the compilation of this report is that we need more information in order to address complex health and community impacts related to industrial camps with innovative strategies. Some of this information may be available internally at Northern Health or through the Ministry of Health and other information may require research advisors or partnerships moving forward.

Future background papers will delve deeper into the issues outlined in this report. Two more papers are currently planned. The second paper in this series provides an overview of community and economic development in Northern BC. The goal is to illustrate how communities in our region have moved through different stages over time in relation to changes in our economy and resource development opportunities. The third paper in this series will be framed using a health and economic development lens. This document aims to identify the impacts on health and health services utilization and the roles of Northern Health, government and industry in the following areas:

Life In Industrial Camps

- Impacts of shiftwork & isolation
- Eating habits and physical activity

Behaviours

- Population / Public Health: communicable diseases & STIs
- Mental Health and Addictions: drug testing; counseling & rehabilitation services
- Health and Safety: occupational health & safety; motor vehicle crashes

Primary & Acute Care

- Physician visits/ access to primary care
- Access to emergency & trauma care
- Perinatal care: physician visits; deliveries

Through initial discussions of the information presented in this paper, the overall recommendation was made to expand the discussion from issues in and stemming from industrial camps to include a transient workforce. It is apparent that the *traditional* definition of an industrial camp (remote and isolated from adjacent communities) is not always the case in Northern BC. Companies and their workers and sub-contractors are making arrangements to stay in hotels and houses in communities. It is a natural fit to broaden our scope and reframe this work to also include transient workers as a focus. This preliminary work also points to the importance of business practices (i.e. housing arrangements for workers) and the relationship to communities and health care. At this time, further study is proposed to better understand the impacts of these types of business models on communities and health services utilization.

Key focus areas and topics requiring further investigation were also identified through initial discussions. They are outlined below and will be incorporated as best as possible into the work already underway.

1. Transient Workers & Their Families

- As noted above, the recommendation to expand the discussion from industrial camps to transient workers is a welcome one. There is a need for more information about this population in Northern BC, including: a) a population profile (age, sex, education, etc); and, b) a better understanding of the impacts of a transient workforce on health service utilization. A focus on different health and social impacts for men, women and families would provide valuable insights.

2. Examples from the Canadian Armed Forces

- There is a large body of work regarding the health impacts and social dynamics of military bases. Although not exactly the same as the industrial camp-setting, drawing on research in this area will compliment what we are currently learning.

3. Patient-Flow Mini-Study

- A mini-study of patient-flow in the Northeast was suggested as a starting point to better understand the movements and health care needs of a transient workforce. Using the example of workers moving back and forth between Alberta and British Columbia will help better understand health services utilization in this context.
- This could be added to this series as another paper.

4. Economic Contributions of Resource Development to Northern BC & BC

- Resource development is an important component of the economy in Northern BC and British Columbia as a whole. More information on revenues generated from resource operations, the establishment of industrial camps and the related transient workforce is important.
- General resource revenue information may be publicly available; however, a separate study would be needed in order to provide a comprehensive profile.

Next steps include gathering information to address each issue in an evidence-based manner, linking with other endorsed positions and working with a range of Northern Health programs and departments. The next goal is to provide guidance and recommendations for Northern Health regarding health and community impacts of transient workers in the industrial camp and community setting.



6.0 Other References

(Also see Appendix E)

British Columbia Mining Association. (2012). *Mines Map*. Website. Accessed on April 10, 2012 at: <http://www.miningassociationbc.com/#>.

Devine, S. G., Muller, R. & Carter, A. (2008). Using the framework for health promotion action to address staff perceptions of occupational health and safety at a fly-in/fly-out mine in northwest Queensland. *Health Promotion Journal of Australia*, 19(3), 196-202.

Dixon, M. (1978). *What happened to Fairbanks? The effects of the Trans-Alaska oil pipeline on the community of Fairbanks, Alaska*. Boulder, Colorado: Westview Press.

England, J. L. & Albrecht, S. L. (1984). Boomtowns and social disruptions. *Rural Sociology*, 49(2), 230-246.

Escoffery, C., Kegler, M. C., Alcantara, I., Wilson, M. & Glanz, K. G. (2011). A qualitative examination of the role of small, rural worksites in obesity prevention. *Preventing Chronic Disease*, 8(4), A75. Retrieved from Centres for Disease Control website: http://www.cdc.gov/pcd/issues/2011/jul/10_0185.htm

Halseth, G., Straussfogel, D., Parsons, S. & Wishart, A. (2004). Regional economic shifts in British Columbia: Speculation from recent demographic evidence. *Canadian Journal of Regional Science*, 27(3), 317-352.

Hayter, R., Barnes, T. J. & Bradshaw, M. J. (2003). Relocating resource peripheries to the core of economic geography's theorizing: Rationale and agenda. *Area*, 35(1), 15-23.

Ministry of Energy, Mines and Petroleum Resources. (2008). *Health, Safety and Reclamation Code for Mines in British Columbia*. Government of British Columbia: Victoria, BC. Website: Accessed on March 29, 2012 at: <http://www.empr.gov.bc.ca/Mining/HealthandSafety/Pages/HSRC.aspx>.

Northern British Columbia Women's Task Force. (1977). *Report on Single Industry Communities*. Northern British Columbia Women's Task Force: Kitimat, BC; Fraser Lake, BC; Mackenzie, BC.

Northern Health. (2011). *Where are the Men? Chief Medical Health Officer's Report on the Health and Wellbeing of Men and Boys in Northern BC*. Northern Health: Prince George, BC. Accessed on March 15, 2012: <http://men.northernhealth.ca/Portals/4/pdfs/mens-health-report-web-nov11.pdf>.

Women's Research Centre. (1979). *Beyond the Pipeline*. Prepared for: The Northern Pipeline Agency: Vancouver, BC.

- i World Health Organization. (2011). *Rio Political Declaration on Social Determinants of Health*. World Conference on Social Determinants of Health, October 19-21, 2011: Rio de Janeiro, Brazil. Accessed on March 26, 2012: <http://www.who.int/sdhconference/declaration/en/>
- ii Hanlon, N. & Halseth, G. (2005). The greying of resource communities in Northern British Columbia: Implications for health care delivery in already-underserved areas. *Canadian Geographer*, 49(1), 1-24. (Page 21).
- iii Sweeney, B. (2009). Sixty years on the margin: The evolution of Ontario's tree planting industry and labour force: 1945-2007. *Labour/ Le Travail*, 63, 47-78; Sweeney, B. (2009). Producing liminal space: Gender, age and class in northern Ontario's tree planting industry. *Gender, Place and Culture: A Journal of Feminist Geography*, 16(5), 569-586.
- iv Storey, K. (2001). Fly-in/fly-out and fly-over: Mining and regional development in Western Australia. *Australian Geographer*, 32(2), 133-148. doi: 10.1080/00049180120066616 (Page 35).
- v Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 164); Markey, S. (2010). Fly-in, fly-out resource development: A new regionalist perspective on the next rural economy. In G. Halseth, S. Markey & D. Bruce (Eds.), *The next rural economies: Constructing rural place in global economies* (pp. 239-250). Cambridge, MA: CABI Publishing. (Page 240).
- vi Markey, S. (2010). Fly-in, fly-out resource development: A new regionalist perspective on the next rural economy. In G. Halseth, S. Markey & D. Bruce (Eds.), *The next rural economies: Constructing rural place in global economies* (pp. 239-250). Cambridge, MA: CABI Publishing. (Page 241); Storey, K. (2001). Fly-in/fly-out and fly-over: Mining and regional development in Western Australia. *Australian Geographer*, 32(2), 133-148. doi: 10.1080/00049180120066616 (Page 135).
- vii Newhook, J.T., Neis, B., Jackson, L., Roseman, S.R., Romanow, P., Vincent, C. (2011). Employment-related mobility and the health of workers, families, and communities: The Canadian context. *Labour/Le Travail* 67(Spring 2011), 121-156; Petkova, V., Lockie, S., Rolfe, J. & Ivanova, G. (2009). Mining developments and social impacts on communities: Bowen Basin case studies. *Rural Society*, 19(3), 211-228; Storey, K. (2001). Fly-in/fly-out and fly-over: Mining and regional development in Western Australia. *Australian Geographer*, 32(2), 133-148. doi: 10.1080/00049180120066616; Torkington, A. M., Larkins, S., Gupta, T. S. (2011). The psychosocial impacts of fly-in fly-out and drive-in drive-out mining on mining employees: A qualitative study. *Australian Journal of Rural Health*, 19, 135-141. doi: 10.1111/j.1440-1584.2011.01205.x



- viii Petkova, V., Lockie, S., Rolfe, J. & Ivanova, G. (2009). Mining developments and social impacts on communities: Bowen Basin case studies. *Rural Society*, 19(3), 211-228. (Page 213).
- ix Markey, S. (2010). Fly-in, fly-out resource development: A new regionalist perspective on the next rural economy. In G. Halseth, S. Markey & D. Bruce (Eds.), *The next rural economies: Constructing rural place in global economies* (pp. 239-250). Cambridge, MA: CABI Publishing.
- x Torkington, A. M., Larkins, S., Gupta, T. S. (2011). The psychosocial impacts of fly-in fly-out and drive-in drive-out mining on mining employees: A qualitative study. *Australian Journal of Rural Health*, 19, 135-141. doi: 10.1111/j.1440-1584.2011.01205.x
- xi Government of British Columbia . (2009). *Public Health Act: Industrial Camps Regulation*. Queen's Printer: Victoria, BC. Website. Accessed on March 12, 2012 at: http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/14_427_83
- xii G. Thibault, personal communication, March 19, 2012.
- xiii Ibid.
- xiv Markey, S. (2010). Fly-in, fly-out resource development: A new regionalist perspective on the next rural economy. In G. Halseth, S. Markey & D. Bruce (Eds.), *The next rural economies: Constructing rural place in global economies* (pp. 239-250). Cambridge, MA: CABI Publishing. (Pages 56 and 243); J. Pardoe, personal communication, May 3, 2012.
- xv Markey, S. & Heisler, K. (2010). Getting a fair share: Regional development in a rapid boom-bust rural setting. *Canadian Journal of Regional Science*, 33(3), 49-62. Retrieved from <http://www.cjrs-rcsr.org/Volume33-3.htm> (Page 52); Northern Health. (2006). *Population Health and Oil and Gas Activities: A Preliminary Assessment of the Situation in North Eastern BC*. A Report from the Medical Health Officer to the Board of Northern Health. Northern Health: Prince George, BC. Accessed on March 15, 2012: http://www.northernhealth.ca/Portals/0/About/NH_Reports/documents/OilandGasreport.pdf (Page 15).
- xvi Storey, K. (2001). Fly-in/fly-out and fly-over: Mining and regional development in Western Australia. *Australian Geographer*, 32(2), 133-148. doi: 10.1080/00049180120066616 (Page 139).
- xvii G. Thibault, personal communication, March 19, 2012.
- xviii Ibid.
- xix Environmental Assessment Office. (2012). *Federal/Provincial Relations: The Environmental Assessment Process*. Website. Accessed on April 03, 2012 at: http://www.eao.gov.bc.ca/fed_prov%20relations.html
- xx D. Quibell, personal communication, March 20, 2012.
- xxi Davidson, A. (2012, April 17). *Ottawa to Slash Environment Review Role*. CBC News Online. Website: Accessed on April 19, 2012 at: <http://www.cbc.ca/news/politics/story/2012/04/17/environmental-reviews.html>
- xxii Ministry of Forests, Lands and Natural Resource Operations. (2012). *Authorizations, Licensing and Permitting* (side menu). Website. Accessed on April 20, 2012 at: <http://www.gov.bc.ca/for/#>
- xxiii M. Hay, personal communication, March 2012.
- xxiv Ministry of Forests, Lands and Natural Resource Operations. (2012). *Major Projects BC*. Website. Accessed on April 20, 2012 at: http://www.for.gov.bc.ca/major_projects/
- xxv Ministry of Energy and Mines and Responsible for Housing. (2012). *Mineral Titles*. Website. Accessed on April 20, 2012 at: <http://www.empr.gov.bc.ca/Titles/MineralTitles/Pages/default.aspx>.
- xxvi Ministry of Energy and Mines and Responsible for Housing. (2012). *Permitting and Reclamation*. Website. Accessed on April 20, 2012 at: <http://www.empr.gov.bc.ca/Mining/Permitting-Reclamation/Pages/default.aspx>
- xxvii J. Pardoe, personal communication, May 03, 2012.
- xxviii Oil and Gas Commission. (2012). *About the Oil and Gas Commission*. Website. Accessed on April 19, 2012 at: <http://www.bcogc.ca/about/>.
- xxix WorkSafeBC. (2012). *About Us*. Website. Accessed on April 03, 2012: http://www.worksafebc.com/about_us/default.asp
- xxx WorkSafeBC. (2012). *OHS Regulation: Part 25 Camps*. Website. Accessed on April 03, 2012: <http://www2.worksafebc.com/Publications/OHSRegulation/Part25.asp>.
- xxxi World Health Organization. (1986). *Ottawa Charter for Health Promotion*. An International Conference on Health Promotion, November 17-21, 1986: Ottawa, Ontario, Canada. Accessed on March 15, 2012: <http://www.phac-aspc.gc.ca/ph-sp/docs/charter-chartre/pdf/charter.pdf>. (Page 1).
- xxxi Northern Health. (2006). *Population Health and Oil and Gas Activities: A Preliminary Assessment of the Situation in North Eastern BC*. A Report from the Medical Health Officer to the Board of Northern Health. Northern Health: Prince George, BC. Accessed on March 15, 2012: http://www.northernhealth.ca/Portals/0/About/NH_Reports/documents/OilandGasreport.pdf (Page 15).
- xxxi D. Bowering, personal communication, March 21, 2012.
- xxxi G. Thibault, personal communication, March 19, 2012.
- xxxi Collinson, D. L. (1998). "Shift-ing" lives: Work-home pressures in the north sea oil industry. *Canadian Review of Sociology and Anthropology*, 35(3), 301-324. (Page 307).
- xxxi Sweeny, B. (2009). Producing liminal space: Gender, age and class in northern Ontario's tree planting industry. *Gender, Place and Culture: A Journal of Feminist Geography*, 16(5), 569-586. (Page 575).

- xxxvii Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 162).
- xxxviii Storey, K. (2001). Fly-in/fly-out and fly-over: Mining and regional development in Western Australia. *Australian Geographer*, 32(2), 133-148. doi: 10.1080/00049180120066616 (Page 139).
- xxxix Barton, S. (2002). Aspects of the effect of substance use on health, wellness and safety of employees and families in northern remote work sites. *Social Indicators Research*, 60(1), 263-274. (Page 270).
- xl Barton, S. (2002). Aspects of the effect of substance use on health, wellness and safety of employees and families in northern remote work sites. *Social Indicators Research*, 60(1), 263-274. (Page 267).
- xli Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 158).
- xlii Barton, S. (2002). Aspects of the effect of substance use on health, wellness and safety of employees and families in northern remote work sites. *Social Indicators Research*, 60(1), 263-274. (Page 267).
- xliii Petkova, V., Lockie, S., Rolfe, J. & Ivanova, G. (2009). Mining developments and social impacts on communities: Bowen Basin case studies. *Rural Society*, 19(3), 211-228. (Page 222).
- xliv Collinson, D. L. (1998). "Shift-ing" lives: Work-home pressures in the north sea oil industry. *Canadian Review of Sociology and Anthropology*, 35(3), 301-324. (Page 315).
- xliv Barton, S. (2002). Aspects of the effect of substance use on health, wellness and safety of employees and families in northern remote work sites. *Social Indicators Research*, 60(1), 263-274. (Page 270).
- xlvi Shandro, J. A., Veiga, M. M., Koehoorn, M., Shoveller, J., Scoble, M. (2011). Perspectives on community health issues and the mining boom-bust cycle. *Resources Policy*. doi:10.1016/j.resourpol.2011.01.004 (Page 23).
- xlvii Collinson, D. L. (1998). "Shift-ing" lives: Work-home pressures in the north sea oil industry. *Canadian Review of Sociology and Anthropology*, 35(3), 301-324. (Page 313, 317).
- xlviii Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 158).
- xlx Collinson, D. L. (1998). "Shift-ing" lives: Work-home pressures in the north sea oil industry. *Canadian Review of Sociology and Anthropology*, 35(3), 301-324. (Page 309).
- I Northern Health. (2011). *Men's Health Matters Because Men Matter. Community Consultation on Men's Health: What We Heard*. Northern Health: Prince George, BC. Accessed on March 15, 2012: <http://men.northernhealth.ca/Portals/4/pdfs/mens-health-matters-web-nov11.pdf>.
- ii Pratt, D. (1990). Occupational health and the rural worker: Agriculture, mining, and logging. *The Journal of Rural Health*, 6(4), 399-417. (Page 413).
- iii Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 162-163).
- iiiii Petkova, V., Lockie, S., Rolfe, J. & Ivanova, G. (2009). Mining developments and social impacts on communities: Bowen Basin case studies. *Rural Society*, 19(3), 211-228. (Page 222).
- liv Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 163).
- lv Aiken, G. J. M. & McCance, C. (1982). Alcohol consumption in offshore oil rig workers. *British Journal of Addiction* 77, 305-310. (Page 305); Collinson, D. L. (1998). "Shift-ing" lives: Work-home pressures in the north sea oil industry. *Canadian Review of Sociology and Anthropology*, 35(3), 301-324. (Page 317); Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 162).
- lvi Barton, S. (2002). Aspects of the effect of substance use on health, wellness and safety of employees and families in northern remote work sites. *Social Indicators Research*, 60(1), 263-274. (Page 266).
- lvii Sweeny, B. (2009). Producing liminal space: Gender, age and class in northern Ontario's tree planting industry. *Gender, Place and Culture: A Journal of Feminist Geography*, 16(5), 569-586. (Page 574).
- lviii Markey, S. & Heisler, K. (2010). Getting a fair share: Regional development in a rapid boom-bust rural setting. *Canadian Journal of Regional Science*, 33(3), 49-62. Retrieved from <http://www.cjrs-rcsr.org/Volume33-3.htm> (Page 56).
- lix Hanlon, N. & Halseth, G. (2005). The greying of resource communities in Northern British Columbia: Implications for health care delivery in already-underserved areas. *Canadian Geographer*, 49(1), 1-24. (Page 2).
- lx Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 158); Hanlon, N. & Halseth, G. (2005). The greying of resource communities in Northern British Columbia: Implications for health care delivery in already-underserved areas. *Canadian Geographer*, 49(1), 1-24. (Page 7); Markey, S. & Heisler, K. (2010). Getting a fair share: Regional development in a rapid boom-bust rural setting. *Canadian Journal of Regional Science*, 33(3), 49-62. Retrieved from <http://www.cjrs-rcsr.org/Volume33-3.htm> (Page 53).
- lxi Sauve, M. (2007). Canadian dispatches from medical fronts: Fort McMurray. *Canadian Medical Association Journal*, 177(1), 26.
- lxii R. Chapman, personal communication, May 7, 2012.

- lxiii G. Thibault, personal communication, March 19, 2012.
- lxiv C. Badenhorst, personal communication, April, 24, 2012.
- lxv Northern Health. (2006). *Population Health and Oil and Gas Activities: A Preliminary Assessment of the Situation in North Eastern BC*. A Report from the Medical Health Officer to the Board of Northern Health. Northern Health: Prince George, BC. Accessed on March 15, 2012: http://www.northernhealth.ca/Portals/0/About/NH_Reports/documents/OilandGasreport.pdf (Page 19).
- lxvi Newhook, J.T., Neis, B., Jackson, L., Roseman, S.R., Romanow, P., Vincent, C. (2011). Employment-related mobility and the health of workers, families, and communities: The Canadian context. *Labour/Le Travail* 67(Spring 2011), 121-156. (Page 149).
- lxvii G. Thibault, personal communication, March 19, 2012; S. Wadden, personal communication, March 28, 2012.
- lxviii Sweeny, B. (2009). Producing liminal space: Gender, age and class in northern Ontario's tree planting industry. *Gender, Place and Culture: A Journal of Feminist Geography*, 16(5), 569-586. (Page 576).
- lxix Newhook, J.T., Neis, B., Jackson, L., Roseman, S.R., Romanow, P., Vincent, C. (2011). Employment-related mobility and the health of workers, families, and communities: The Canadian context. *Labour/Le Travail* 67(Spring 2011), 121-156. (Page 131).
- lxx Goldberg, S., Shoveller, J. S., Ostry, A. S. & Koehoorn, M. (2008). Sexually transmitted infection (STI) testing among young oil and gas workers. *Canadian Journal of Public Health*, 99(4), 350-354.
- lxxi Torkington, A. M., Larkins, S., Gupta, T. S. (2011). The psychosocial impacts of fly-in fly-out and drive-in drive-out mining on mining employees: A qualitative study. *Australian Journal of Rural Health*, 19, 135-141. doi: 10.1111/j.1440-1584.2011.01205.x (Page 139-140).
- lxxii Ibid.
- lxxiii Aiken, G. J. M. & McCance, C. (1982). Alcohol consumption in offshore oil rig workers. *British Journal of Addiction* 77, 305-310. (Page 309); Barton, S. (2002). Aspects of the effect of substance use on health, wellness and safety of employees and families in northern remote work sites. *Social Indicators Research*, 60(1), 263-274. (Page 271).
- lxxiv G. Thibault, personal communication, March 19, 2012.
- lxxv Aiken, G. J. M. & McCance, C. (1982). Alcohol consumption in offshore oil rig workers. *British Journal of Addiction* 77, 305-310. (Page 309).
- lxxvi Goldberg, S., Shoveller, J. S., Koehoorn, M., & Ostry, A. S. (2010). And they call this progress? Consequences for young people of living and working in resource-extraction communities. *Critical Public Health*, 20(2), 157-168. (Page 165).
- lxxvii Ibid.
- lxxviii IPIECA & International Association of Oil and Gas Producers. (2011). *Managing health for field operations in oil and gas activities: A guide for managers and supervisors in the oil and gas industry*. Website. Accessed on May 01, 2012 at <http://www.ipieca.org/publication/managing-health-field-operations-oil-and-gas-activities>
- lxxix International Council on Mining and Metals. (2012). *Health and Safety: Leading Indicators Work*. Website. Accessed on April 17, 2012 from <http://www.icmm.com/our-work/projects/articles/leading-indicators>; International Council on Mining and Metals. (2012). *Health and Safety: Health Risk Assessment Project*. Website. Accessed on April 17, 2012 from <http://www.icmm.com/page/14606/health-risk-assessment>.
- lxxx Mining Association of Canada. (2012). *Towards sustainable mining - assessment protocol: A tool for assessing safety and health performance*. Website. Accessed on April 17, 2012 at: http://www.mining.ca/www/media_lib/TSM_Documents/protocols_2012/TSM%20SAFETY%20AND%20HEALTH%20PROTOCOL%20-%20February%202012.pdf; Mining Association of Canada. (2012). *Towards sustainable mining: Safety and health framework*. Website. Accessed on April 17, 2012 at: http://www.mining.ca/www/media_lib/TSM_Documents/2011_protocols/Safety%20Framework.pdf
- lxxxi Imperial Oil. (2012). *Monitoring worker health in the field*. Website. Accessed on May 01, 2012 at: http://www.imperialoil.com/Canada-English/community_ccr2009_safety_health.aspx
- lxxxii Imperial Oil. (2012). *Health policy*. Website. Accessed on May 01, 2012 at: http://www.imperialoil.com/Canada-English/Files/health_policy.pdf (Page 1).
- lxxxiii Spectrum Resource Group. (2012). *About us*. Website. Accessed on May 01, 2012 at: <http://srgi.ca/about.php>
- lxxxiv Chieftain Metals Inc. (2012) *Technical, environmental, health and safety committee*. Website. Accessed on May 01, 2012 at <http://www.chieftainmetals.com/corporate-tech-enviro-health-safety.php>
- lxxxv Devon Canada Corporation. (2012). *Corporate social responsibility: Environmental, health and safety*. Website. Accessed on May 01, 2012 at http://www.dvn.com/CorpResp/ehs/Pages/health_and_safety.aspx; Encana Corporation. (2012). *Health*. Website. Accessed on May 01, 2012 at <http://www.encana.com/about/responsibility/reports/cr2010/health-safety/health>; Nexen Inc. (2012). *Responsible development*. Website. Accessed on May 01, 2012 at <http://www.nexeninc.com/en/ResponsibleDevelopment/HealthandSafety.aspx>; Thompson Creek Metals. (2012). *Corporation social responsibility*. Website. Accessed on May 01, 2012 at <http://www.thompsoncreekmetals.com/s/CRP.asp>
- lxxxvi Bechtel Corporation. (2012). *2008 Monthly ES&H Campaign: March – You and Your Health*. Website. Accessed on May 01, 2012 at <http://www.bechtel.com/assets/files/Environmental/ToolboxSafetyTopics/2008/20080303YouandYourHealth.pdf>
- lxxxvii Ibid.
- lxxxviii S. Dosanjh, personal communication, March 27, 2012.
- lxxxix Alberta Health Services. (2012). *Environmental public health: Work camps*. Website. Accessed on May 03, 2012 at <http://www.albertahealthservices.ca/services.asp?pid=service&rid=1052215>



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- xc Alberta Health Services. (2012). *Disease prevention, wellness and lifestyle*. Website. Accessed on May 03, 2012 at <http://www.albertahealthservices.ca/572.asp>
- xcj Government of Western Australia. (2012). *WA health promotion strategic framework 2012-2016*. Website. Accessed on May 03, 2012 at http://www.public.health.wa.gov.au/2/1588/2/health_promotion_strategic_framework.pm
- xcii Government of Western Australia. (2012). *Mental health commission: Rural and remote mental health*. Website. Accessed on May 03, 2012 at http://www.mentalhealth.wa.gov.au/ournewapproach/rural_remote.aspx
- xciii Alberta Health Services. (2012). *Northern addictions centre/ business and industry clinic*. Website. Accessed on May 03, 2012 at <http://www.albertahealthservices.ca/services.asp?pid=service&rid=1039204>



Appendix A

Sources of Data for Maps and Lists of Industrial Camps

The information obtained from the Land and Resource Data Warehouse (LRDW) is updated on a regular basis and subject to change. This is the best available, publicly accessible source of information for industrial camps in British Columbia. Some information is cumulative and covers several years of industrial camp permitting and it is not always known which areas identified for industrial camps are currently active; retired; scheduled for development; a temporary, seasonal or permanent camp; or, if a camp has been or will eventually be established on that site. The information presented in the maps was obtained from the LRDW on the dates noted below and is subject to change. Lists generated from this information shown in Appendix B are subject to the same restrictions and changes.

Oil and Gas Camps

Map and Lists

- Data obtained from the BC Government Land and Data Warehouse (LRDW)
 - ⇒ File: OGC Ancillary and Other Applications (Public Version)
 - ⇒ Date: March 19, 2012
 - ⇒ Data Custodian: BC Oil and Gas Commission
- Contains information on deck sites, well sites, etc and included camps`
 - ⇒ Not able to determine which sites designated for camps are active.
- To generate a shapefile for the map and list of camps and affiliated companies the information was filtered by purpose "camps" as categorized by the available data.

Front Line Sources

- Northern Health Environmental Health Officers also provided information regarding industrial camps in their areas.

Forestry Logging Camps

Map and Lists

- Data obtained from the BC Government Land and Data Warehouse (LRDW)
 - ⇒ File: Forest Tenure Special Use Permit Polygon
 - ⇒ Date: March 28, 2012
 - ⇒ Data Custodian: BC Government Forest Tenures Branch
- Contains information on all special use permits issued by the Forest Tenures Branch.
 - ⇒ Able to determine which camps were active, pending or retired.
- To generate a shapefile for the map and a list of camps and affiliated companies the information was filtered by special use code "logging camps, offices, etc" as categorized by the available data.
- No company information available.

Front Line Sources

- Northern Health Environmental Health Officers also provided information regarding industrial camps in their areas.

Drinking Water Licenses

Map

- Data obtained from the BC Government Land and Data Warehouse (LRDW)
 - ⇒ File: Drinking Water Sources (Surface Water PODs)
 - ⇒ Date: March 19, 2012
 - ⇒ Data Custodian: BC Government Water Management Branch
- Contains information on all consumptive water license points of diversion.
- To generate a shapefile for the map and a list of camps and affiliated companies the information was filtered by license purpose “camps or work camps” as categorized by the available data.
- No company information available.

Major Projects

Map

- Data obtained from the BC Government Land and Data Warehouse (LRDW)
 - ⇒ File: Electronic Project Information Centre (EPIC) - Points
 - ⇒ Date: April 02, 2012
 - ⇒ Data Custodian: BC Environmental Assessment Office
- Contains information on projects that are currently or have been subject to environmental assessment review.
- No other attribute information available, although the description of the data indicates that it should provide information regarding the type of project and status in the assessment process. Attempts were made to obtain the full data set, but requests and inquiries were not acknowledged at the time this report was completed.
- Project ID numbers are provided with this data and attempts were made to cross-check this with other sources of information, with no results.
- Other sources tried include:
 - ⇒ Major Projects BC (Ministry of Forests, Lands and Natural Resource Operations): No project IDs available and accuracy of the information on their website is questionable as project descriptions did not match the region in which they are found.
- Link: http://www.for.gov.bc.ca/major_projects/map.htm
 - ⇒ The BC Environmental Assessment Office has a database of projects but no common identifiers were apparent - such as project IDs.
- Link: http://a100.gov.bc.ca/appsdata/epic/html/deploy/epic_home.html

- ⇒ Canadian Environmental Assessment Office has a database of projects but no common identifiers were apparent - such as project IDs.
- Link: <http://www.ceaa.gc.ca/050/index-eng.cfm>

Mines - Projects and Status (used for Lists in Appendix B)

Lists

- Data obtained from BC Mining Association's Mines Map
 - ⇒ They have an interactive map that shows which mines are operating, reclaimed, in exploration, in the environmental assessment process.
- Link: <http://www.miningassociationbc.com/>
 - ⇒ This information was used to identify some mines and companies; unfortunately no related camp information or coordinates is available.
 - ⇒ This information was cross-checked with other information provided by 'front line sources'.

Front Line Sources

- Northern Health Environmental Health Officers and Ministry of Energy and Mines staff also provided information regarding industrial camps in their areas.

Appendix B List of Industrial Camps and Companies in Northern BC

Lists of camps presented in this appendix are based on best available information from a variety of sources and are subject to change given the fluctuating nature of industrial camps. Some camps may never be established, some may be retired and some currently active - all camps can either be temporary, seasonal or permanent in nature and their status is difficult to track. Please see Appendix A for more information on how the maps of industrial camps and related lists were generated.

1. Northeast Health Service Delivery Area

1a: Oil and Gas Camps Over 1 Hectare (ha) and Related Companies

Proponent	# of camps	<1 ha	= 1-5 ha	> = 5 ha	Company Website
Encana Corporation	207	178	27	2	www.encana.com/
Canadian Natural Resources Limited	128	125	3	0	www.cnrl.com/
Shell Canada Limited	83	80	3	0	www.shell.ca
Talisman Energy Inc.	72	62	9	1	www.talisman-energy.com/
Husky Oil Operations Limited	57	52	5	0	www.huskyenergy.com/
BP Canada Energy Company	57	56	1	0	www.bp.com
Burlington Resources Canada (Hunter) Ltd.	49	47	2	0	www.conocophillips.com/EN/about/who_we_are/history/burlington/Pages/index.aspx
ConocoPhillips Canada Operations Ltd.	38	32	6	0	www.conocophillips.ca/EN/Pages/index.aspx
EOG Resources Canada Inc.	36	26	7	3	www.eogresources.com/home/index.html
Devon Canada Corporation	36	32	2	2	www.dvn.com/Pages/devon_energy_home.aspx
Apache Canada Ltd.	36	32	4	0	www.apachecorp.com/Operations/Canada/index.aspx
Quicksilver Resources Canada Incl.	22	6	15	1	www.qrinc.com/operations/canada/
Penn West Petroleum Ltd.	22	21	0	1	www.pennwest.com/
Nexen Inc.	19	14	3	2	www.nexeninc.com/
Petro-Canada	19	17	2	0	www.petro-canada.ca/
Imperial Oil Resources Limited	16	0	13	3	www.imperialoil.ca/Canada-English/default.aspx
Primewest Energy Inc. (TAQA North Ltd.)	16	9	7	0	www.primewestenergy.com/ ; www.taqa.ae
TAQA North Ltd.	11	9	2	0	www.taqa.ae
Progress Energy Ltd.	8	4	4	0	www.progressenergy.com/
Cequence Acquisitions Ltd.	8	7	1	0	www.cequence-energy.com/
Nuvista Energy Ltd.	7	6	1	0	www.nuvistaenergy.com
Legacy Oil & Gas Inc.	6	4	2	0	www.legacyoilandgas.com/
Canbriam Energy Inc.	5	4	1	0	www.canbriam.com
Harvest Operations Corp.	3	2	1	0	www.harvestenergy.ca
Nal Petroleum (ACE) Ltd.	3	2	1	0	www.nal.ca
Encal Oil and Gas Ltd.	1	0	1	0	?
Tesla Exploration Ltd.	1	0	1	0	www.teslaexploration.com

Source: Land and Resource Data Warehouse on March 19, 2012. Some camps may not be active.

1b: Forestry Logging Camps and Related Districts

Forest District	Number of Camps	Contact Information
Peace	43	www.for.gov.bc.ca/dpc/
Mackenzie	3	www.for.gov.bc.ca/dmk/
Fort Nelson	2	www.for.gov.bc.ca/dfn/
Total	48	

Source: Land and Resource Data Warehouse on March 28, 2012.

1c: Camps and Workcamps with Drinking Water Licenses

Type	Number of Licenses	Contact Information
Workcamp	3	Not available
Camp	2	Not available
Total	5	

Source: Land and Resource Data Warehouse on March 19, 2012.

1d: Industrial Camps Identified in the Northeast HSDA

Facility Name	Capacity	Contractor/Company
HomRiver	700	PTI
Kiwigana Lodge	475	Compass Group
Komi Camp	400	Compass Group
Willow Creek Camp	325	Grizzco
Groundbirch Lodge	250	Horizon North Camps and Catering; Jomax Drilling
Red Willow Lodge	200	Horizon; Red Rock Camos; Royal Camp Services
LXL (Haystack)	180	Grizzco
Geetla	124	PTI
Sierra	104	PTI
Grizzly Lodge	100	Horizon
Sasquatch Crossing Inn	100	Mag and Mels
Beaton Airport Camp	3 to 85	
Ventures Patry Camp	72	Mag and Mels
Jedney Camp	60	Progress Energy
Buffalo Inn	50	Mag and Mels
Devon Canada Komie	8 to 50	Devon Canada
D. Loenwen 127 camp	40	Mag and Mels
Bucking Horse River Lodge	35	Bucking Horse River Lodge; CNRL; Clean Harbors
Buick Creek	32	Mag and Mels
801 Paramount	30	Acho Camps and Catering
Lone Wolf Open Camp	30	Mag and Mels; Northgate Industries
Conoco Phillips Canada Ltd.	25	Conoco Phillips Canada Ltd.
LaPrairie Camp	25	Grizzco
Spectra	25	Compass Group
Carbon Creek Industrial Camp	24	Carbon Creek Industrial Camp
Dechant Leasing	22	Dechant Leasing
Legacy	20	Acho Camps and Catering
nabors 34	20	PTI
nabors 97	20	PTI; Western Camp Services

Facility Name	Capacity	Contractor/Company
Devon Canada North Nig	7 to 18	Devon Canada
Devon Canada Tommy Lakes	12	Devon Canada
Devon Tommy Lakes	12	Devon Canada
J. Bueckert Ltd	12	J. Bueckert Ltd
Only for Employees	11	Only for Employees
Fort Nelson Town camp	10	Kledo Constuction
Devon Canada Peggo	6 to 10	Devon Canada
North Nig	9	Devon Canada
TAQA North Chinchaga	4 to 6	
Devon Canada Martin	2 to 4	Devon Canada
Devon Canada Monias	1 to 3	Devon Canada
Conoco Phillips Gutah Camp	2	Conoco Phillips Canada Ltd.
Devon Canada Kahntan	0	Devon Canada
Devon Canada Wargen	0	Devon Canada
Devon Canada West Eagle Kitchen	0	Devon Canada
Mag N' Mel's Buick Creek Camp	0	
Beaton Airport Camp		R&G Lennex Contracting
Camp 1		D. Loewen Ent.
Camp 226		LRG
Devon Peggo		Devon Canada
Dillion Mine		Walter Energy/Pelly Construction; Keyera Caribou Gas Plant
Goodlow Open Camp		
Kely Pile Camp		Key Pile Camp
nabors 70		Elite Camp Services; Encana Corp
Ring Border Plant Camp		Conoco Phillips
Talisman Camp (T2)		Grizzco

Source: Crystal Brown & Daisy Tam, EHOs, Northern Health – 23-March-2012

1e: Mines - Status and Related Companies - Northeast (BC Mining Association)

Mine	Status	Company / Proponent	Associated Camp
Carbon Creek	Advanced Exploration	Cardero Resource Corp. (www.cardero.com/s/carbon_creek.asp)	
Central South	Advanced Exploration	Xstrata Coal (www.xstratacoal.com/EN/Pages/default.aspx)	Yes, camp on maintenance.
Roman Mountain	Advanced Exploration	Peace River Coal (www.peacerivercoal.com)	
Willow Creek	Advanced Exploration	Walter Energy Western Coal (www.walterenergy.com)	Yes, temporary (1-2 years), ~200
Gething Coal Project	Permitting / Environmental Assessment	Canadian Dehua International (www.dehua.ca)	
Hermann	Permitting / Environmental Assessment	Walter Energy Western Coal (www.walterenergy.com)	
Horizon	Permitting / Environmental Assessment	Peace River Coal (www.peacerivercoal.com)	
Brule Coal Mine	Operating	Walter Energy Western Coal (www.walterenergy.com)	Yes, permanent for ~200
Trend Coal	Operating	Peace River Coal (www.peacerivercoal.com)	
Wolverine-Perry Creek	Operating	Walter Energy Western Coal (www.walterenergy.com)	

Source: BC Mining Association's Mines Map: www.mining.bc.com. Accessed on April 10, 2012.
Associated camp information provided by Brian Oke, Inspector of Mines, Ministry of Energy and Mines on May 01, 2012

2. Northern Interior Health Service Delivery Area

2a: Forestry Logging Camps and Related Districts

Forest District	Number of Camps	Contact Information
Prince George	11	www.for.gov.bc.ca/dpg/
Mackenzie	9	www.for.gov.bc.ca/dmk/
Nadina	9	www.for.gov.bc.ca/dnd/
Fort St. James	7	www.for.gov.bc.ca/dja/
Headwaters	2	www.for.gov.bc.ca/dhw/
Quesnel	2	www.for.gov.bc.ca/dqu/
Vanderhoof	2	www.for.gov.bc.ca/dva/
Skeena	1	www.for.gov.bc.ca/dss/
Total	43	

Source: Land and Resource Data Warehouse on March 28, 2012.

2b: Silviculture Companies with Potential Camps in 2012 - Northern Interior

Licensee	Contractor / Company	Company Website
BC Timber Sales (multiple districts)	AKD	No website - from Quesnel
	Artisan Reforestation	www.artisanreforestation.com
	Dynamic Reforestation	www.dynamicreforestation.com
	Folklore Contracting	www.folklorecontracting.com
	Next Generation Reforestation	No website - from Beaverlodge
	Seneca Enterprises	www.seneca-enterprises.com
	Spectrum Resource Group	www.srgi.ca
	Summit Reforestation	www.summitreforestation.com/
Canfor	Windfirm Resources	www.windfirm.ca/
	Folklore Contracting	www.folklorecontracting.com
	Apex Reforestation	www.apex-reforestation.com
	Brinkman & Associates Reforestation Ltd.	www.brinkman.ca
	Celtic Reforestation	www.celticreforestation.com
N/A	Spectrum Resource Group	www.srgi.ca
	IFS - Industrial Forestry Service Ltd.	www.industrialforestry.ca
Lakeland Mills	Apex Reforestation	www.apex-reforestation.com
	Spectrum Resource Group	www.srgi.ca
Carrier Lumber	Artisan Reforestation	www.artisanreforestation.com
	Brinkman & Associates Reforestation Ltd.	www.brinkman.ca
Dunkley Lumber Ltd.	Artisan Reforestation	www.artisanreforestation.com
	Spectrum Resource Group	www.srgi.ca
	Venture North	
Conifex - Mackenzie	Apex Reforestation	www.apex-reforestation.com
East Fraser - Mackenzie	Currently Unknown	
West Fraser - Quesnel; Quesnel River Pulp; Quesnel Plywood	Apex Reforestation	www.apex-reforestation.com
	Big Sky Silviculture Ltd.	No website - from Vancouver
	Blue Collar Silviculture	No website - from Quesnel
	Spectrum Resource Group	www.srgi.ca
Hauer Bros - Valemount	Zanzibar	www.zanzibar.ca/
	Gainer Res	No website - from Robson area
Tolko - Quest Wood	Blue Collar Silviculture	No website - from Quesnel

Source: Jim Green, EHO, Northern Health - 23-March-2012

2c: Camps and Workcamps with Drinking Water Licenses

Type	Number of Licenses	Contact Information
Workcamp	16	Not available
Camp	2	Not available
Total	18	

Source: Land and Resource Data Warehouse on March 19, 2012.

2d: Identified Industrial Camps in the Northern Interior HSDA

Facility Name	Capacity	Industry
Huckleberry Mine	250	Mining
Meadowview Lodge	10	Not specified
Camp Watters Bunkhouse		Not specified
Canfor-Northwood Pulp Mill		Forestry
Frost Lake Camp		Not specified
Hat Lake Camp		Not specified
Itcha Mountain Outfitters		Not specified
Kluskus Logging Camp		Forestry
Malaput Camp		Not specified
Munro Camp		Not specified
Nanki Lake Camp		Not specified
Ospika Camp		Not specified
Raspberry Camp		Not specified
Troll Camp		Not specified
Windy Point Inn		Not specified

Source: Angela Wheeler & Dale Chen, EHOs, Northern Health – 23-March-2012

2e: Mines - Status and Related Companies - Northern Interior (BC Mining Assoc.)

Mine	Status	Company / Proponent	Associated Camp
Frasergold	Advanced Exploration	China Minerals Mining Corp. (www.chinamineralsmining.com)	
Giscome Quarry	Permitting / Environmental Assessment	Graymont Western Canada Inc. (www.graymont.com)	
Chu Molybdenum	Permitting / Environmental Assessment	TTM Resources (www.ttmresources.ca)	Yes – temporary, ~100 people
Mt. Milligan Project	Permitting / Environmental Assessment	Thompson Creek Metals Inc. (www.thompsoncreekmetals.com)	Yes – temporary (~2 years) and housing, ~200+ people
Gibraltar	Operating	Taseko Mines Ltd. (www.tasekomines.com)	
Kemess South	Operating	AuRico Gold (www.auricogold.com)	Yes – reclamation mode but may have ~ 100 people there
Mount Polley	Operating	Imperial Metals (www.imperialmetals.com)	
QR	Operating	Barkerville Gold Mines Ltd. (www.barkervillegold.com)	
Shasta	Operating	Sable Resources (www.sableresources.com)	Yes, small, permanent, seasonal, ~10 people

Source: BC Mining Association's Mines Map: www.mining.bc.com . Accessed on April 10, 2012.
Associated camp information provided by Brian Oke, Inspector of Mines, Ministry of Energy and Mines on May 01, 2012.

3. Northwest Health Service Delivery Area

3a: Forestry Logging Camps and Related Districts

Forest District	Number of Camps	Contact Information
Haida Gwaii	11	www.for.gov.bc.ca/dqc/
Kalum	2	www.for.gov.bc.ca/dkm/
Mackenzie	2	www.for.gov.bc.ca/dmk/
Fort St. James	1	www.for.gov.bc.ca/dja/
North island	1	www.for.gov.bc.ca/dni/
Skeena	1	www.for.gov.bc.ca/dss/
Total	18	

Source: Land and Resource Data Warehouse on March 28, 2012.

3b: Camps and Workcamps with Drinking Water Licenses

Type	Number of Licenses	Contact Information
Workcamp	14	Not available
Camp	7	Not available
Total	21	

Source: Land and Resource Data Warehouse on March 19, 2012.

3c: Industrial Camps Identified in the Northwest HSDA

Facility Name	Capacity		Industry
Kitimat Modernization Project	600 (1500 projected in ph3)	Bechtel Corporation	Industry
Forrest Kerr Mine Project	440		Mining
Galore Creek Mining Corporation	~80-400+		Mining
Kemess Mine	70 to 100		Mining
Summit Reforestation & Forest Management Unit # 5	85-94	Summit Reforestation	Forestry/Silviculture
Summit Reforestation & Forest Management Unit # 4	85-93	Summit Reforestation	Forestry/Silviculture
Summit Reforestation & Forest Management Unit # 3	85-92	Summit Reforestation	Forestry/Silviculture
Summit Reforestation & Forest Management Unit # 2	85-91	Summit Reforestation	Forestry/Silviculture
Summit Reforestation & Forest Management Unit # 1	85-90	Summit Reforestation	Forestry/Silviculture
Windfirm Resources Inc.	80	Windfirm Resources	Forestry/Silviculture
Copper River Ranch	60		Not Specified
RCDC	60		Not Specified
Bob Quinn Lodge	50		Not Specified
Kemano Staffhouse - Industrial Camp	50		Utilities/Industry
Alice Arm Lodge	30		Not Specified
Avanti Kitsault Mine 2011	30		Not Specified
Dolly Varden Silver	30		Not Specified
Kildala Camp One	27		Not Specified
Eskay Creek Mine Industrial Camp	20		Mining
Great Glacier Salmon Camp	10		Not Specified

Source: Sabrina Dosanjh & Shane Wadden, EHOs, Northern Health – 23-March-2012

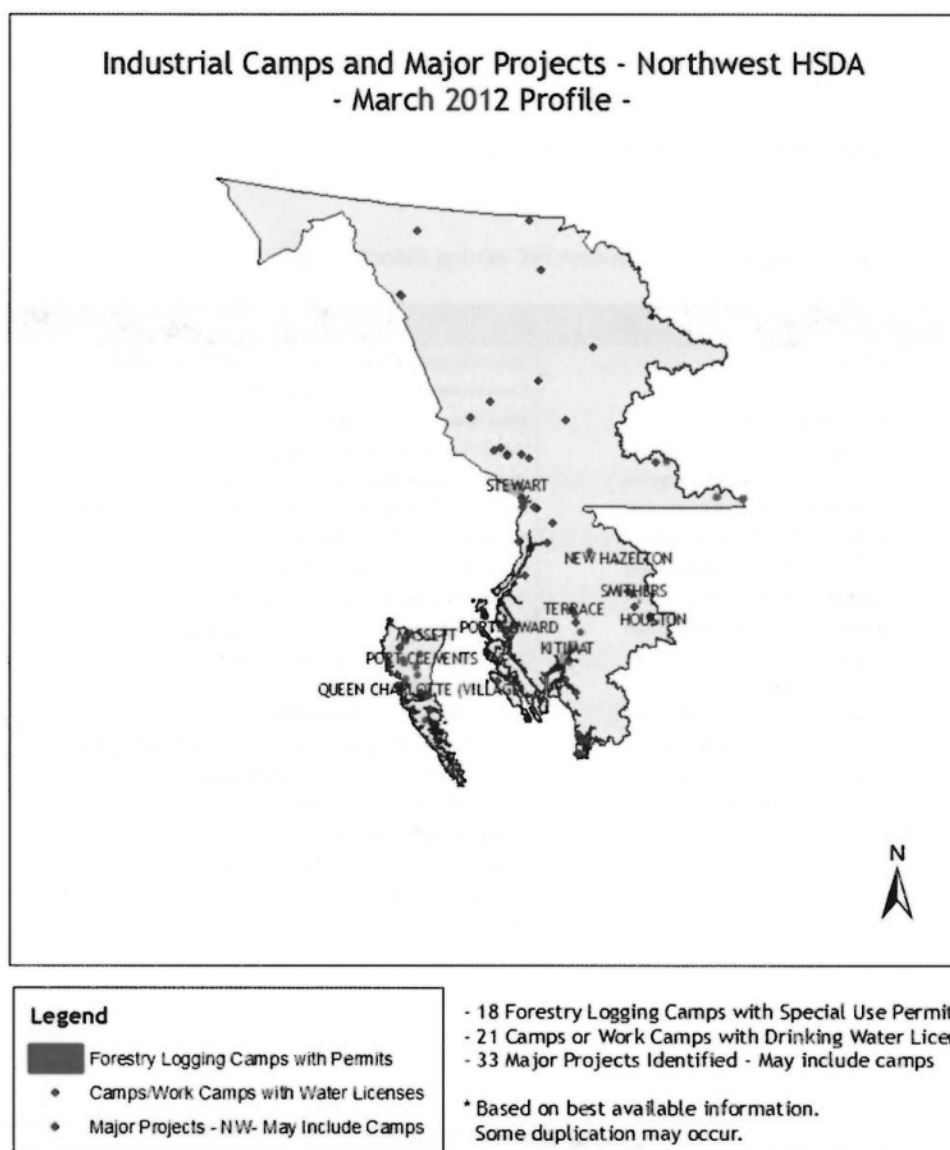
3d: Mines - Status and Related Companies - Northwest (BC Mining Association)

Mine	Status	Company / Proponent	Associated Camp
Berg	Advanced Exploration	Thompson Creek Metals Inc. (www.thompsoncreekmetals.com)	Likely - remote
Big Bull	Advanced Exploration	Chieftain Metals Inc. (www.chieftainmetals.com)	Likely - remote
Foremore	Advanced Exploration	Roca Mines Inc. (www.rocamines.com)	Likely - remote
Bear River Gravel	Permitting / Environmental Assessment	Glacial Aggregates Inc. (www.glacialagg.ca)	Likely - remote
Davidson Property	Permitting / Environmental Assessment	Thompson Creek Metals Inc. (www.thompsoncreekmetals.com)	Likely - remote
Dome Mountain	Permitting / Environmental Assessment	Metal Mountain Resources Inc. (www.metalmountainresources.com)	Likely - remote
Galore Creek	Permitting / Environmental Assessment	NovaGold / Teck Resources (www.novagold.com)	Likely - remote
Kerr-Sulphrets-Mitchell	Permitting / Environmental Assessment	Seabridge Gold Inc. (www.seabridgegold.net)	Likely - remote
Kitsault	Permitting / Environmental Assessment	Avanti Mining Inc. (www.avantimining.com)	Likely - remote
Kutcho Creek	Permitting / Environmental Assessment	Capstone Mining Corp. (www.capstonemining.com)	Likely - remote
Morrison	Permitting / Environmental Assessment	Pacific Booker Minerals (www.pacificbooker.com)	Likely - remote
Mount Klappan	Permitting / Environmental Assessment	Fortune Minerals Limited (www.fortuneminerals.com)	Likely - remote
Red Chris	Permitting / Environmental Assessment	Imperial Metals (www.imperialmetals.com)	Likely - remote
Schaft Creek	Permitting / Environmental Assessment	Copper Fox Metals Inc. (www.copperfoxmetals.com/s/Home.asp)	Likely - remote
Tulsequah Chief	Permitting / Environmental Assessment	Chieftain Metals Inc. (www.chieftainmetals.com)	Likely - remote
Tumagain	Permitting / Environmental Assessment	Hard Creek Nickel (www.hardcreek.com)	Likely - remote
Endako	Operating	Thompson Creek Metals Inc. (www.thompsoncreekmetals.com)	Yes.
Fireside	Operating	Fireside Minerals Inc. (www.firesideminerals.com)	Likely - remote
Huckleberry	Operating	Imperial Metals (www.imperialmetals.com)	Yes (NI HSDA)

Source: BC Mining Association's Mines Map: www.mining.bc.ca. Accessed on April 10, 2012

Appendix C: Maps

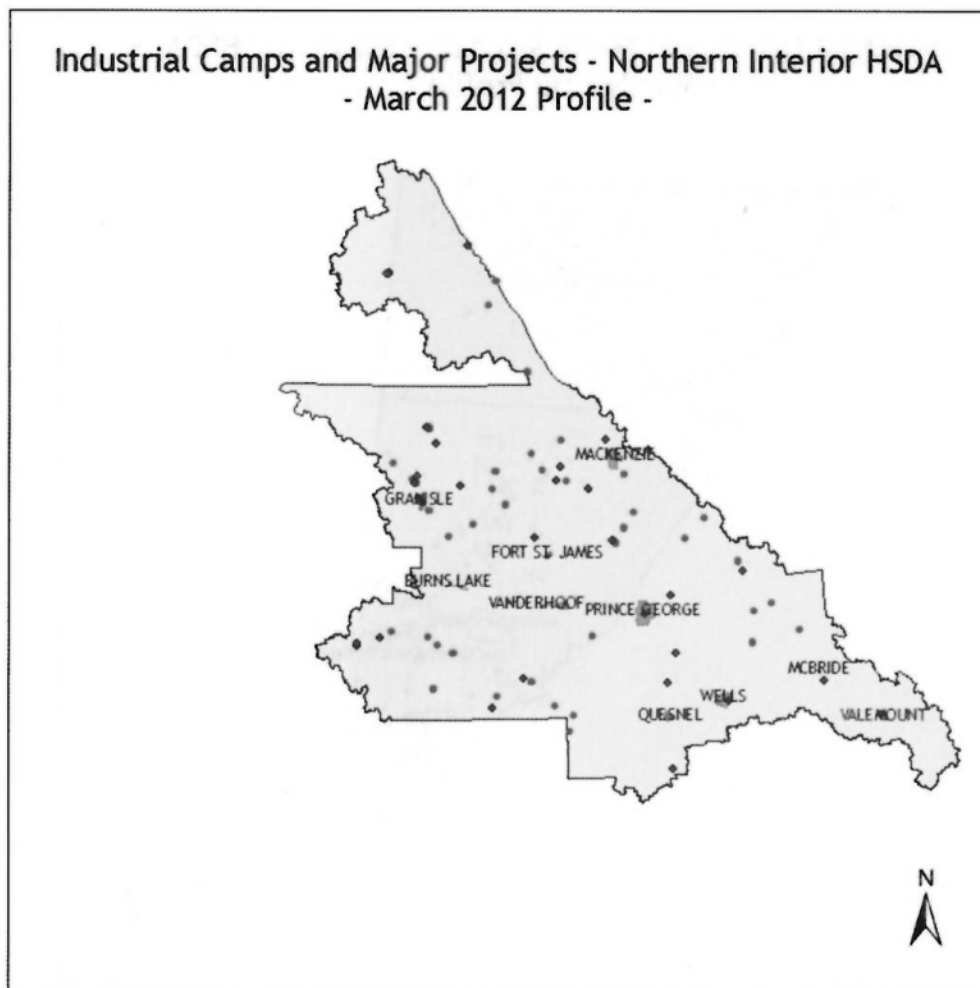
Map A: Industrial Camps and Major Projects - NW HSDA: March 2012 Profile



Source: This map is compiled using publicly available information from the Land and Resource Data Warehouse.
www.lrdw.ca

Date: 02/05/2012

Map B: Industrial Camps and Major Projects - NI HSDA: March 2012 Profile



Legend

- Forestry Logging Camps with Permits
- Camps/Work Camps with Water Licenses
- Major Projects - NI - May Include Camps

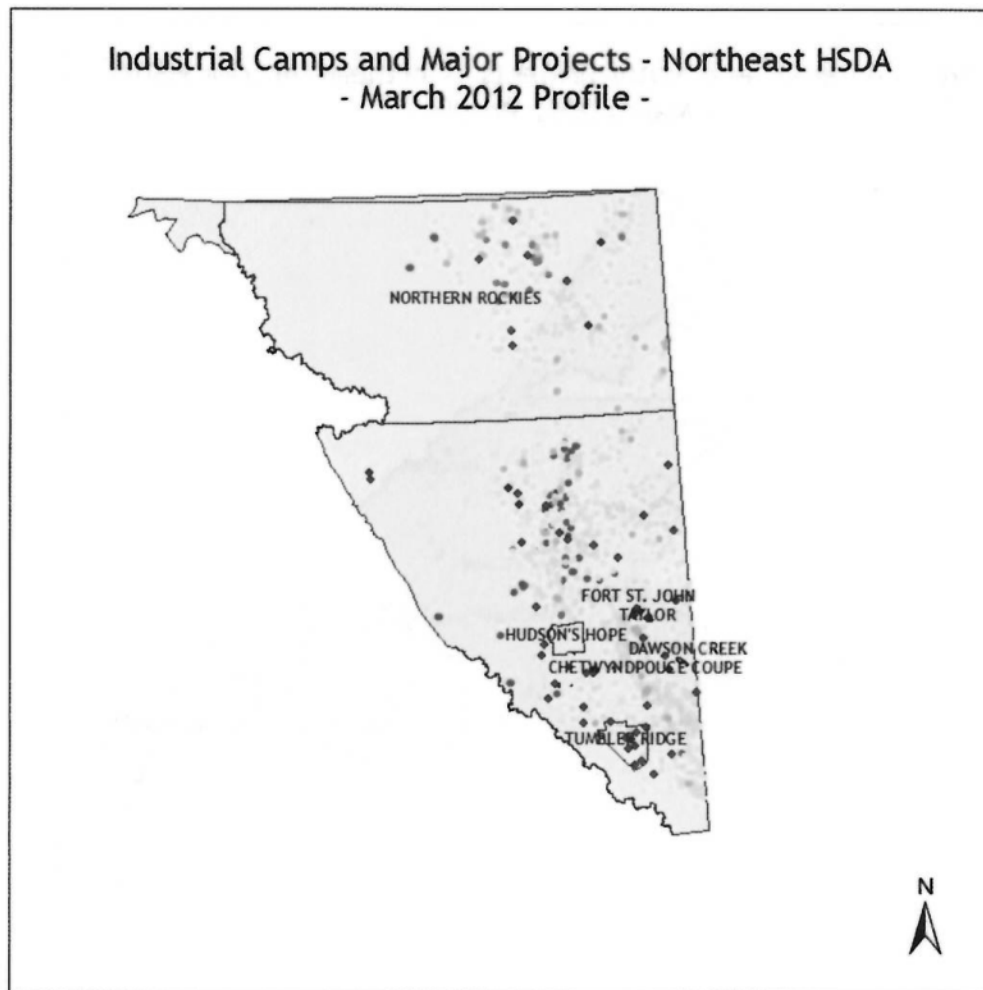
- 43 Forestry Logging Camps with Special Use Permits
- 18 Camps or Work Camps with Drinking Water Licenses
- 15 Major Projects Identified - May include camps

* Based on best available information.
Some duplication may occur.

Source: This map is compiled using publicly available information from the Land and Resource Data Warehouse.
www.lrdw.ca

Date: 19/04/2012

Map C: Industrial Camps and Major Projects - NE HSDA: March 2012 Profile



Legend	
	Oil and Gas Camps - Large - Over 5ha - NE HSDA
	Oil and Gas Camps - Medium - 1 to 5ha - NE HSDA
	Active Forestry Camps with Special Use Permits - NE HSDA
	Camps and Work Camps with Water Licenses - NE HSDA
	Major Projects - NE - May Include Camps

- 15 Large Oil and Gas Camps (More than 5ha)
- 128 Medium Oil and Gas Camps (1-5ha)
- 1424 Small Oil and Gas Camps (Less than 1ha)
- 48 Forestry Logging Camps with Special Use Permits
- 5 Camps or Work Camps with Drinking Water Licenses
- 50 Major Projects Identified - May include camps

*Based on best available information.
Some duplication may occur.

Source: This map is compiled using publicly available information from the Land and Resource Data Warehouse.
www.lrdw.ca

Date: 02/05/2012

Appendix D Sources of Information for Environmental Scan

Industry Associations: Canada & Australia

International

International Council on Mining and Metals

- Leading Indicators Work: <http://www.icmm.com/our-work/projects/articles/leading-indicators>
- Health Risk Assessment Project: <http://www.icmm.com/page/14606/health-risk-assessment>

Canada

Canadian Association of Petroleum Producers:

<http://www.capp.ca/environmentCommunity/healthSafety/Pages/default.aspx>

ENFORM: The Safety Association for Canada's Upstream Oil and Gas Industry: <http://www.enform.ca/>

Mining Association of Canada – Towards Sustainable Mining

- Safety and Health Protocol:
http://www.mining.ca/www/media_lib/TSM_Documents/protocols_2012/TSM%20SAFETY%20AND%20HEALTH%20PROTOCOL%20-%20February%202012.pdf
- Safety and Health Framework:
http://www.mining.ca/www/media_lib/TSM_Documents/2011_protocols/Safety%20Framework.pdf

British Columbia

BC Forest Safety Council: <http://www.bcforestsafety.org/>

BC Mining Association: http://www.mining.bc.ca/health_and_safety.htm

BC Petroleum Contractors Association: <http://www.bcpetroleum.com/>

Industry Training Authority: <http://www.itabc.ca/site3.aspx>

Alberta

Alberta Forest Producers Association: <http://www.albertaforestproducts.ca/>

Northwest Mining Association: <http://www.nwma.org/>

Ontario

Ontario Forestry Association: <http://www.oforest.ca/>

Ontario Mining Association: <http://www.oma.on.ca/en/>

Ontario Petroleum Contractors Association: <http://www.opcaonline.org/>

Ontario Petroleum Institute: <http://www.ontpet.com/>

Australia

APPEA: Australian Petroleum Production and Exploration Association Ltd.: <http://www.appea.com.au/oil-and-gas-in-australia/safety-and-health/objectives.html>

Mineral Council of Australia: http://www.minerals.org.au/focus/safety_health

National Association of Forest Industries: <http://www.nafi.com.au/site/>

Companies: Operating in Northern BC

Forestry

APEX Reforestation: no website

Artisan Reforestation: <http://www.artisanreforestation.com/>

Brinkman & Associates: <http://www.brinkmanforest.ca/>

Spectrum Resource Group: <http://srqi.ca/about.php> (vision/mission)

Summit Camps: <http://www.summitcamps.ca/> (contractor, catering)

Summit Reforestation: <http://www.summitreforestation.com/>

Mining

Chieftain Metals Inc:

- Committee: <http://www.chieftainmetals.com/corporate-tech-enviro-health-safety.php>

Imperial Metals: <http://www.imperialmetals.com/s/Home.asp>

Thompson Creek Metals:

- Corporation Social Responsibility <http://www.thompsoncreekmetals.com/s/CRP.asp>

Walter Energy Western Coal: <http://www.walterenergy.com/>

Oil and Gas

Imperial Oil:

- Work Camp Safety Inspections: http://www.imperialoil.com/Canada-English/community_ccr2009_safety_health.aspx
- Health Policy: http://www.imperialoil.com/Canada-English/Files/health_policy.pdf

EOG Resources Canada Inc.: <http://www.eogresources.com/home/index.html>

- Kitimat LNG Facility: <http://www.kitimatlngfacility.com/>

Encana Corporation: <http://www.encana.com/about/responsibility/reports/cr2010/health-safety/health/>

Nexen Inc.: <http://www.nexeninc.com/en/ResponsibleDevelopment/HealthandSafety.aspx>

Devon Canada Corporation: http://www.dvn.com/CorpResp/ehs/Pages/health_and_safety.aspx

Other (Contractor)

Bechtel Corporation: <http://www.bechtel.com/home.html>

Search 'health' on their website and there are a number of publications & factsheets.

Health Sector: BC, Alberta, Ontario & Australia

Canada

Alberta Health Services:

- Disease Prevention, Wellness & Lifestyle (limited): <http://www.albertahealthservices.ca/572.asp>
- Environmental Public Health – Work Camps:
<http://www.albertahealthservices.ca/services.asp?pid=service&rid=1052215>
- Northern Addictions Centre / Business & Industry Clinic:
<http://www.albertahealthservices.ca/services.asp?pid=service&rid=1039204>
- Population Health: <http://www.albertahealthservices.ca/1196.asp>

Ontario:

Northern Diabetes Health Network: <http://www.ndhn.com/>

Northeast Cancer Centre: <http://www.hsnsudbury.ca/PortalEn/rcp/Home/tabid/84/Default.aspx>

Northeast Local Health Integration Network: <http://www.nelhin.on.ca/home.aspx?langtype=4105>

- *Chronic Disease Prevention and Management:* http://www.nelhin.on.ca/page_priority.aspx?id=11684
- *Mental Health and Addictions:*
http://www.nelhin.on.ca/page_priority.aspx?id=3778&ekmense=e2f22c9a_394_514_btnlink

Australia

Queensland Government:

- Communicable Diseases Branch: <http://www.health.qld.gov.au/ph/cdb/default.asp>
- Health Promotion Branch: <http://www.health.qld.gov.au/ph/hpu/default.asp>
- Mental Health: <http://www.health.qld.gov.au/mentalhealth/>

Government of Western Australia:

- Department of Health: <http://www.healthnetworks.health.wa.gov.au/home/>
- Environmental health, food, water and hazards:
http://www.public.health.wa.gov.au/1/1060/2/environmental_health_food_water_and_hazards.pm
- Health Promotion Strategic Framework:
http://www.public.health.wa.gov.au/2/1588/2/health_promotion_strategic_framework.pm
- Mental Health Commission: <http://www.mentalhealth.wa.gov.au/Homepage.aspx>

Rural and Remote Mental Health: http://www.mentalhealth.wa.gov.au/ournewapproach/rural_remote.aspx

Appendix E Other Sources of Information and Data

Some potential sources of information and data for the development of a position statement on health promotion and industrial camps are outlined below. This list is not exhaustive and it should be noted that the necessary data for industrial camps in Northern BC may not exist or be easily accessible. These are some starting points and potential partners or collaborators in compiling information for and working towards evidence-based positions and strategies in the coming months.

British Columbia Statistics: www.bcstats.gov.bc.ca

- British Columbia Statistics (BC Stats) is an incredible resource and offers access to a variety data and analysis in the areas of: Aboriginal peoples, business and industry, census, demography, economy, employee research, environmental statistics, exports and imports, geography, labour and income, and social statistics. BC Stats also provides access to a number of publications and periodicals.
- Major Projects Inventory: "The British Columbia Major Projects inventory is a comprehensive database containing information on major development activities in British Columbia. Information on the location and status of capital projects over \$15 million (Cdn.) in capital cost, or \$20 million in the Lower Mainland area, for mining, oil and gas, manufacturing, transportation, utilities, hotel and residential construction projects are all available at your fingertips."
<http://www.bcstats.gov.bc.ca/StatisticsBySubject/BusinessIndustry/MajorProjectsInventory.aspx>
 - This information is easily accessible through downloadable in either PDF or Excel formats. A great resource! December 2011 information accessed on March 27, 2012 at:
http://www.jti.gov.bc.ca/ministry/major_projects_inventory/index.htm.

Canadian Institute for Health Information (CIHI): www.cihi.ca

- The Canadian Institute for Health Information offers a range of products and services, for a fee, and works in the areas of health system performance, spending and health workforce, and factors influencing health. CIHI may be able to assist with compiling data specific to Northern Health's interest in upstream risk factors depending on available information and resources.

Centre for Health Services and Policy Research (CHSPR) – UBC: www.chspr.ubc.ca

- This research centre, located at UBC, is involved in a range of population health and health services projects including: health human resources, health care use and effectiveness, and primary health care. This may be a valuable source of information in the development of the position paper and the researchers affiliated with this centre may be able to access data on behalf of Northern Health if necessary.

Environmental Assessment Office (EAO): www.eao.gov.bc.ca

- e-PIC: Searchable database of current, approved and pending major projects subject to an environmental review in British Columbia. Accessed on April 03, 2012 at:
http://a100.gov.bc.ca/appsdata/epic/html/deploy/epic_home.html.
- Maps of Projects: Various publicly available maps of major projects in British Columbia. Accessed on April 03, 2012 at: <http://www.eao.gov.bc.ca/maps.html>.

- Environmental Assessment Statistics: Some statistics provided by the EAO providing context for interpreting the types and trends of projects. Accessed on April 03, 2012 at: <http://www.eao.gov.bc.ca/Statistics.html>.

Major Projects BC – Ministry of Forests, Lands and Natural Resource Operations (FLRNO):
www.for.gov.bc.ca/major_projects/

- Current Projects - Interactive Map: A map of current clean energy, mining, oil and gas, tourist destination resort, utilities and other major projects in BC is available at: http://www.for.gov.bc.ca/major_projects/map.htm (Accessed on April 03, 2012). Each project illustrated is labeled by project name, activity, region, location and a short project description is provided. A spreadsheet database itemizing the projects is available for download and includes the project's status in the environmental assessment process, as well as its coordinates. However, the accuracy of this information needs to be verified before it is used as names of projects and their descriptions on the map do not always seem to correspond to the correct location as depicted.

Ministry of Energy and Mines:

- Notice of Work: Companies are required to submit a notice of work. As these would be tracked by MEM, perhaps this could be a potential source of information for identifying industrial camps and/or Northern Health could receive notification when such an application is filed related to an industrial camp.
- Recent correspondence with MEM staff indicate that a notice of work does not provide additional information about whether a camp or project is active, or whether the application is, in fact, approved.

Partnership for Work, Health & Safety (UBC & WorkSafeBC): <http://pwhs.ubc.ca/>

- Work being done by a UBC and WorkSafeBC partnership focuses on different aspects of worker health and safety including: injury and disease surveillance, policy and evaluation and determinants of work injury and illness - including shiftwork and sleep disorders.
- This may be a prime source of potential information and/or collaboration for Northern Health moving forward.

Population Data BC: <http://www.popdata.bc.ca/>

- "Population Data BC is a multi-university, data and education resource facilitating interdisciplinary research on the determinants of human health, well-being and development. We offer researchers access to one of the world's largest collections of health care, health services and population health data, and a comprehensive education and training service on how to best use those data."
- This organization has various data available from WorkSafeBC dating back to 1987 which may be of use in developing a position statement.
- Other data includes: health care and health services, population and demographic information, and spatial data (great for mapping!).

Statistics Canada

- A wide range of socio-economic, population, demographic, health and industry related information is available through StatsCan. For a fee, requests for specific 'data runs' can be submitted to tailor to your needs - depending on available data.
- Of specific interest to Northern Health is the 'Health in Canada' department:
<http://www4.statcan.gc.ca/health-sante/index-eng.htm>

WorkSafeBC: www.worksafebc.com

- Research Secretariat: WorkSafeBC also has a Research Secretariat. Although their focus is on occupational health and safety, this department could be a possible partner in gathering and compiling information specific to industrial camps.
 - Website: http://worksafebc.com/contact_us/research/default.asp
- Nature of Injury Codes: Injuries reported to WorkSafeBC are coded and it may be possible to link injuries back to underlying health issues/upstream risk factors. This could be done in conjunction with their research department. A list of injury codes is available at:
 - http://www.worksafebc.com/health_care_providers/health_care_practitioners/hospitals/default.asp (Accessed on April 03, 2012)
- Notice of Project: Companies are required to file Notices of Projects with WorkSafeBC. These records are a possible source of information for further tracking of industrial camps if deemed appropriate.
 - http://worksafebc.com/insurance/managing_your_account/notice_of_project/default.asp (Accessed on April 03, 2012)

947796

Dr. Charles Jago, C.M.
Board Chair
Northern Health Regional Office
600-299 Victoria St
Prince George BC V2L 5B8

Dear Dr. Jago:

Thank you for your email of October 18, 2012, and for forwarding an advance copy of the Northern Health Authority's background paper regarding industrial camps in northern British Columbia.

This is an important document as the increase in the number of workers required by resource based industrial work camps will present significant challenges to your health authority. I understand this is the second of three papers you are developing that are directed at assessing the impacts on health care services in your region as a result of the transient work force.

I have forwarded a copy to the Ministry of Health's Health Protection Branch for their review.

Yours truly,

Margaret MacDiarmid
Minister

pc: Tim Lambert, Executive Director, Health Protection Branch

#7

995562

HAD

TUESDAY – SEPTEMBER 17, 2013
MoH Staff - Elaine McKnight
Vancouver Convention Centre, East - Meeting Room 18
For Tuesday – Elaine's Office – Polycom # s.15,s.17

M T G	Time	ID	Mun/ Regional District	Program	Topics to be Discussed	Additional Info	Council Attendees
7	10:00 -10:15	008 196	District of Kitimat	HSD Effle Henry Leigh Ann Seller.	Funding for Multi-Level Care and Assisted Living at Kitimat General Hospital Funding for Acute Care Trauma Care Health funding that recognizes temporary worker shadow populations	Please note that multiple requests to meet with the MOH have been submitted by the District of Kitimat. Due to time and space constraints, all topics will need to be discussed in one meeting.	Joanne Monaghan, Mayor Ron Poole, CAO Councillors: Corinne Scott, Edwin Empinado, Mario Feldhoff, Mary Murphy, Philip Germuth, Rob Goffinet

Issue:

- A paper was presented on the need for funding for Kitimat Community Services including Healthy Communities. (see tab 7 of note taker's binder)
- Health care funding is an issue, staffing is a problem, recruitment and retention, speciality services – need ultra sound and trauma care unit. Upgrading our emergency room to higher level of trauma capability is needed.
- Mobile ER unit (from Olympics) would be a visual demonstration to the community.
- Kitimat has 13,000 temporary workers.
- Mental health and addictions and Social Services need to be addressed.
- Kitimat now has a hospital foundation.
- community concern with the health effects of emissions

Follow up:

- air shed monitoring – what are the health effects
- healthy communities grants – what is available to Kitimat
- Is the mobile ER unit from Olympics

Ministry Response:

- Kitimat continue to work collaboratively with Northern Health.
- PPH to provided information on the air shed monitoring and Healthy Communities grants available.
- Provide information on the Mobile ER unit.

TUESDAY – SEPTEMBER 17, 2013
MoH Staff/Contact # - Elaine McKnight 250-217-2676
Vancouver Convention Centre, East - Meeting Room 18

M T G	Time	ID	Munl/ Regional District	Program	Topics to be Discussed	Additional Info	Council Attendees
7	10:00 -10:15	008 196	District of Kitimat	HSD- Lead FCS Regional Grants	Funding for Multi-Level Care and Assisted Living at Kitimat General Hospital Funding for Acute Care Trauma Care Health funding that recognizes temporary worker shadow populations	Please note that multiple requests to meet with the MOH have been submitted by the District of Kitimat. Due to time and space constraints, all topics will need to be discussed in one meeting.	Joanne Monaghan, Mayor Ron Poole, CAO Councillors: Corinne Scott, Edwin Empinado, Mario Feldhoff, Mary Murphy, Philip Germuth, Rob Goffinet

Issue:

DISTRICT OF KITIMAT

UBCM 2013 - FACT SHEET

ISSUE

- Funding for Multi-Level Care and Assisted Living at Kitimat General Hospital and Health Center.
- Funding for Acute Care Trauma, care health funding that recognizes temporary worker shadow populations.

KEY FACTS

- Kitimat General Hospital and Health Centre provides a full range of general acute services, 24-hour emergency health care, short-term inpatient acute care, and trauma services. The hospital has a catchment population of 9,589 (the population within a 2 hour drive is 40,326) and is considered a low-volume health centre with 11,843 ED visits in 2012/13. The site has limited diagnostic imaging capacity (no MRI or CT). Patients requiring more advanced care are stabilized prior to transfer to an appropriate facility.
- The Northern Health Authority (NHA) is responsible for the planning and development of residential care and assisted living spaces in the District of Kitimat based on population needs and forecast bed demand. There are currently 15 publicly funded Assisted Living beds in Kitimat located at Delta King Place.

BACKGROUND

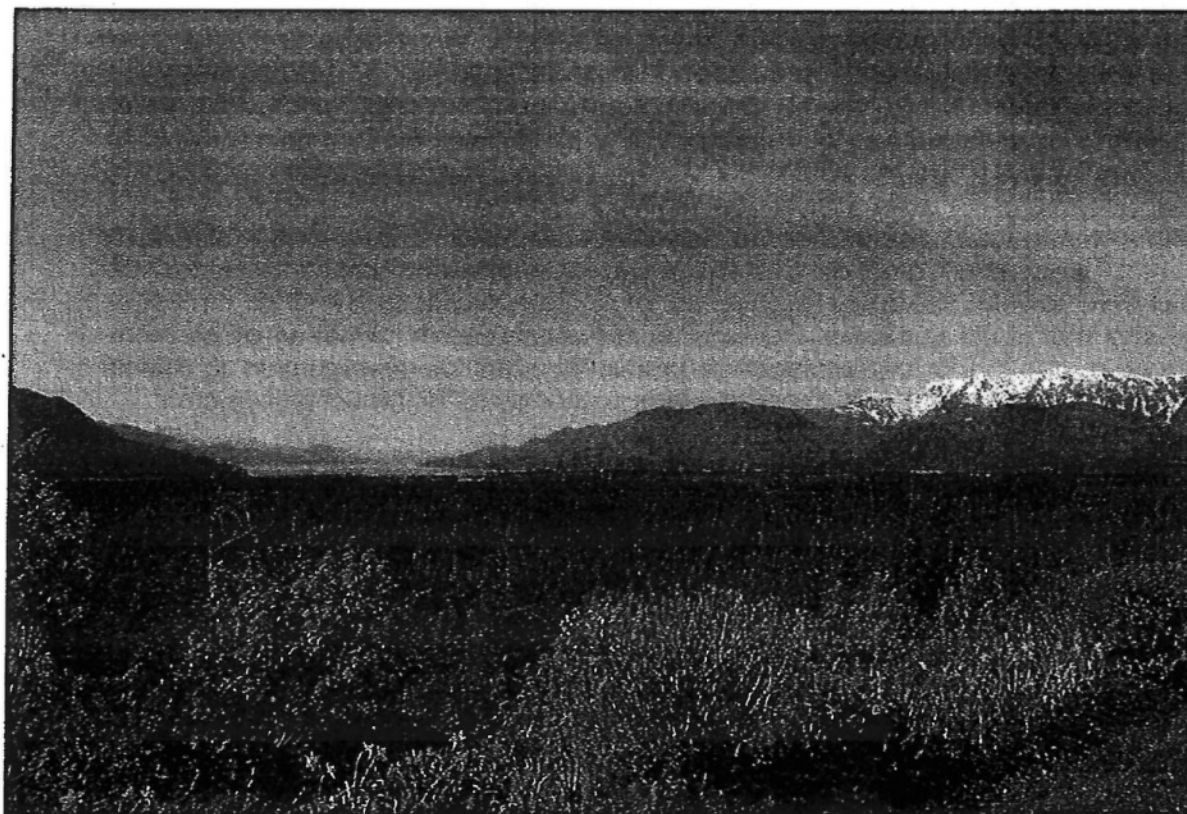
The potential for expansion of liquid natural gas facilities and other proposed natural resource and transportation projects in Kitimat and the surrounding area may impact future demand for trauma and other health services provided by NHA.

CONTACT

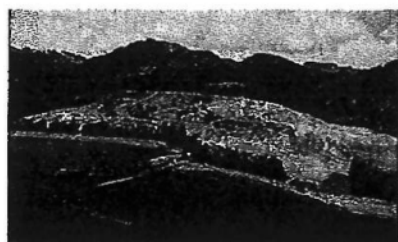
Effie Henry, Health Services Division; 250-952-1514
Leigh Ann Seller, Health Services Division; 250-952-1274

APPROVALS

Approved by: Teri Collins, for Barbara Korabek, Health Services Division; September 12, 2013
Approved by: Gordon Cross, Regional Grants and Decision Support; September 12, 2013
Approved by: Manjit Sidhu; Financial and Corporate Services Division; September 13, 2013



District of Kitimat



Meeting with Minister of Health

The Honourable Terry Lake

UBCM Conference

On October 28, 2009, the community of Kitimat was hit with the devastating news that West Fraser would be permanently closing its Eurocan Pulp and Paper Mill. 535 employees were affected by this downturn. This followed a similar shutdown announcement less than five years prior of the Methanex methanol and ammonia plants. In both cases, the community rallied to save the companies and revive the operations. Neither attempt was successful.

Four years later we find ourselves in a completely different position that no one would have predicted, a 180 degree turn around. With the advent of liquefied natural gas export (LNG) and other commodities that could be shipped out of our port, Kitimat finds itself on the verge of development that could exceed the building of the community of Kitimat by Alcan more than 60 years ago. The unprecedented, proposed industrial development in Kitimat is projected to bring upwards of 10,000 or more temporary workers to the District of Kitimat.

The Northern Health Authority has been meeting and discussing health concerns with industrial proponents. The District of Kitimat is working collaboratively to support the Northern Health Authority in these deliberations.

With billions of dollars of industrial development being proposed for the Kitimat area in the coming decade, Kitimat is, and will continue to experience, massive social, economic and demographic change that must not be allowed to adversely impact health care and thereby the overall social well-being of the people of Kitimat. Without a fully functioning, fully staffed and well equipped hospital and health care system, Kitimat will not remain healthy through the stressful construction period before us.

Some of our concerns include the need for:

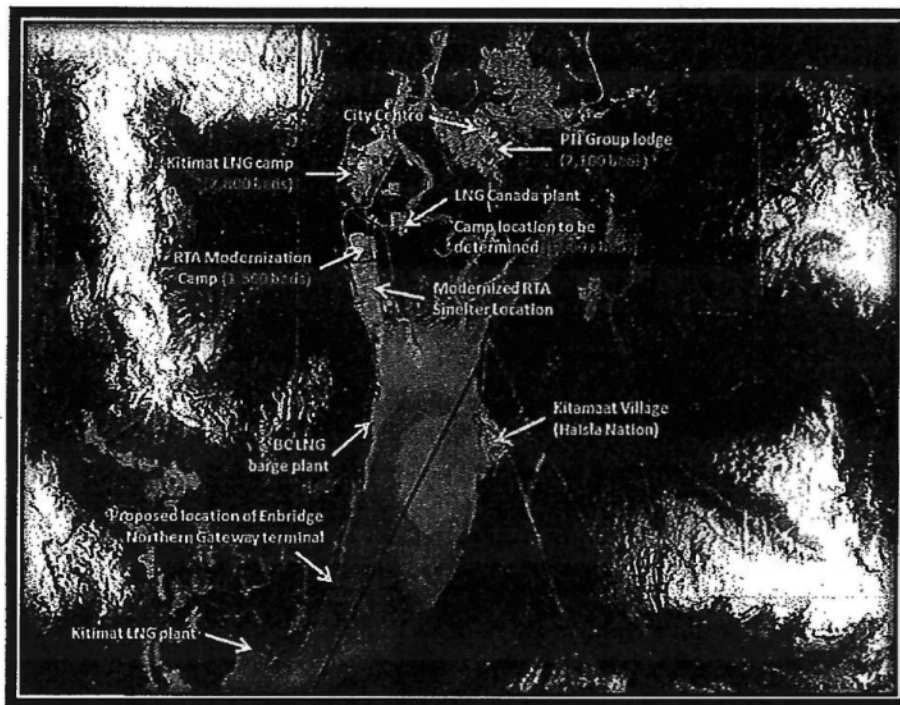
- Health Care funding (Acute, Speciality Services and Mental Health and Addictions) that recognizes an increase in the temporary worker population
- A Trauma capable Emergency Room
- Funding to Kitimat Community Services and other social groups taking into account the temporary worker population
- Facilitate development of social/affordable housing
- Funding multi-level care and assisted living facilities (Increase in Home Support Services)

The District of Kitimat stands by its commitment to support the recruitment and retention of trained personnel. Through the Kitimat Health Advocacy Group, earlier this year the District of Kitimat committed \$15,000 to augment Northern Health's recruitment efforts for two Physiotherapists and one Ultrasound Technician. We look forward to working closely with Northern Health to secure another permanent Ultrasound Technician for Kitimat General Hospital in the Fall as well as any other personnel, equipment or training that Northern Health deems necessary.

In addition, we commit to working with Northern Health Authority to better understand and support improved Population Health and Primary Health initiatives within the community through our Kitimat Leisure Services Department and our Joint Protocol Agreement with The Northern Health Authority. Through the newly formed Kitimat General Hospital Foundation, we will continue to support the acquisition of updated equipment, consider the development of assisted living facilities and do everything in our power to support Northern Health with their stated goal of increasing Home Support Services and other primary health initiatives in our community.

We respectfully request that the Ministry increase funding to Kitimat Community Services and other social groups including Healthy Communities, to mitigate the stressors that this period of rapid industrial construction is already having on the most at risk and vulnerable populations (with the greatest health needs) in our community. We believe the Ministry must recognize acute medical and emotional needs of the transient worker population that the Kitimat General Hospital is already reacting to, without any added source of revenue. We would also ask that the Minister establish on-going discussions with the District of Kitimat to review the health care challenges facing our community and collaboratively develop a resolution that addresses these issues.

We know that this meeting today is too short to discuss the issues in depth but hope it can serve as a starting point. We support the direction that the Province is taking in developing our area and clearly realize that we must be part of the ongoing conversation as we move forward.



This picture shows the proposed camp locations within the District of Kitimat. Estimates show that more people will live in camps than the current permanent population of Kitimat residents.

INDUSTRIAL IMPACTS ON THE DISTRICT OF KITIMAT OVER THE NEXT 5 – 10 YEARS

With the increasing global demand for natural gas, Kitimat has been on the radar as the primary shipping point for liquefied natural gas to Asian markets. More than \$30 billion in direct investment has been announced and work has begun on several major projects. Announced projects include, natural gas liquefaction (LNG) facilities, pipeline projects and associated shipping terminals. Kitimat's Economic Development Office is increasingly busy fielding inquiries from resource industries, the energy sector and manufacturing proponents. New businesses and residents are arriving in Kitimat, recognizing the unique opportunity and potential in the region.

Included with this new flurry of economic activity come the challenges associated with a community experiencing high growth. The District of Kitimat has identified issues to be addressed in consultation with the Provincial government. Areas of focus include transportation, emergency services, the environment, recreation, health & social issues and economic development.

All levels of government must be committed to working together in an expeditious manner if we are to create a vibrant community amidst tremendous development opportunity. Kitimat's social and economic growth will be defined by how we address the following issues:

TRANSPORTATION

1. Funding for painting, maintaining, replacing Haisla Bridge
Assume responsibility for Haisla Boulevard all the way to Bish Cove as a Provincial Highway
2. Funding a Transportation Plan for Kitimat
3. Evaluate a new Kitimat River crossing

HEALTH/SOCIAL

1. Health Care funding (Acute, Specialty Services and Mental Health and Addictions) that recognizes an increase in the temporary worker population
2. Trauma capable Emergency Room
3. Provide funding to Kitimat Community Services and other social groups taking into account the temporary worker population
4. Facilitate development of social/affordable housing
5. Funding multi-level care and assisted living facilities (increase in Home Support Services)
6. Discourage the relocation of unqualified workers to Kitimat

.../4

ECONOMIC DEVELOPMENT

1. Encourage value-added projects (methanol, petrochemicals, etc.)
2. Facilitate multi-use public wharf development
3. Facilitate development and expansion of Service Centre North

RECREATION

1. Develop a new marina within District of Kitimat boundaries
2. Public access to water
3. Improved planning for the development of the Douglas Channel

ENVIRONMENT

1. Provide regulatory certainty regarding cumulative emissions in the Kitimat Valley

FIRE/POLICE

1. Policing provided taking into account the worker (temporary) population
2. New municipal Fire Hall that recognizes industry and community needs

FIRST NATIONS

1. Work in consultation with MARR in order to encourage ongoing communications

UBCM Minister Meeting Summaries
September 25-27, 2012

Meeting 5: District of Kitimat

- Acknowledge that Kitimat General Hospital (KGH) is an excellent health care facility but there is a need to sustain services within the hospital
- Concerns regarding recent announcement by Ministry of Finance on Capital Budget restrictions, hope is that sufficient funding will still be made available for the projects involving the redesign of the nurse and doctors stations and the essential observation security room as well as acquisition of updated diagnostic equipment
- Minister MacDiarmid: Will confirm if the above projects are affected but understanding is that projects within the current budget are unaffected
- Second issue is regarding the recruitment and retention of trained personal at KGH. s.16
s.16
- Third issue addresses inadequate multi-level care and lack of capacity and staffing at Mountain View Lodge. 25-30% of acute care beds at KGH are being occupied by patients waiting to be placed at Mountain View Lodge.
- Request that the Minister look into augmenting private care aids
- District of Kitimat will work with NHA to get multi-level care construction on future NHA Capital Budgets
- Minister MacDiarmid: Acknowledges that Kitimat has a strong foundation and has grown enormously. Problem was in not knowing that the older population would increase as it did
- Minister MacDiarmid: Need to recognize where the biggest demands lie and whether older people could stay at home if home care assistance was provided. Residential care is still needed but if people could stay home longer, it is better for the bottom line
- Minister MacDiarmid: Less demand equals less space requirement
- Minister MacDiarmid: NHA will definitely want to work with Kitimat on primary care issues

Follow up required:

- None

Letter:

- Working with NHA on primary care issues
- Messaging Health Authorities Division (Leigh Ann Seller)

Approval by Leigh Ann Seller, Health Authorities Division



995562

Her Worship Joanne Monaghan
Mayor of Kitimat
270 City Centre
Kitimat BC V8C 2H7

Dear Mayor Monaghan:

I appreciated meeting with you at the Union of British Columbia Municipalities Convention on September 17, 2013, in order to discuss opportunities for the District of Kitimat to become a healthier community.

At the time, we discussed Kitimat's interest for funding to support community services and the building of a healthier community, airshed monitoring, and the request for the mobile ER unit to visit Kitimat. There were a number of action items that came out of the meeting. Please find below the results of the requested follow-up.

There are a number of focused healthy living grants that may support Kitimat's vision of a healthier community. They are as follows:

- Age friendly grants – funds up to \$20,000 for planning efforts and projects that help seniors live active, socially engaged and independent lives through policies, services and structures designed to support them. Applicants will be notified of the status of the applications by November 29, 2013. The provincial government's platform commitment is to fund the annual grant program for three years, from 2014 to 2016, subject to annual budget availability. For more information visit:
<http://www.ubcm.ca/EN/main/funding/healthy-communities/seniors-housing-support-initiative.html>.
- RBC Sports Day in Canada BC Community Challenge – five prizes of \$1000 for sports equipment are available to communities that engage their community leaders and residents around the celebration of sport as a physical activity. Winning communities will also be featured on television as the sportiest communities in BC. For more information visit:
<http://sportsday.cbc.ca/eventtools/SportDayCommunitywideEventManual>.

...2

- Healthy Communities Capacity Building Fund Grants – funds to assist local governments to develop skills, policies, partnerships, and actions that contribute to healthier communities. Application forms and criteria for the grants will be available starting November 26, 2013. For more information visit:
<http://planh.ca/training-support/funding>.

Air quality is extensively monitored in the Kitimat airshed, and the Ministry of Environment is working with industry to further enhance this network. Air quality measurements in Kitimat are generally good, and current air quality levels are below provincial air quality objectives. To ensure that proposed new industrial developments in the Kitimat-Terrace airshed do not cause undue effects to the environment and human health from sulfur dioxide and nitrogen oxide emissions, the provincial government has initiated a study to assess effects across a range of these emissions from proposed industries. The results of this study are expected to be available in the spring of 2014.

BC's Mobile Medical Unit (MMU) is a high-tech hospital on wheels. The MMU is a unique resource offering a variety of health emergency response and business continuity services throughout the province. The MMU can be called upon in the event of a natural disaster or other emergency that requires surge capability or replacement of a damaged health care facility. The MMU can also be utilized for renovation support when a health care facility is undergoing renovations, and for public health outreach, event support such as that provided during BC's 2010 Winter Olympics, and medical education.

Additional information about the MMU is available at: <http://www.bcmmu.ca/default.htm>. Should you wish to contact MMU's Corporate Office you may do so by writing to:

Mobile Medical Unit
Provincial Health Services Authority
700 – 1380 Burrard St
Vancouver BC V6Z 2H3

I encourage you to continue working with the Northern Health Authority regarding your concerns about the health care needs of the Kitimat community. I applaud your leadership and continued interest in creating local conditions that promote the health and well-being of your citizens. I look forward to continuing our work together to reach our mutual goal of healthy living in Kitimat.

Sincerely,



Terry Lake
Minister

Jennifer Rice, MLA
(North Coast)
Victoria Office:
Room 201, Parliament Buildings
Victoria BC V8V 1X4

Community Office:
818 - 3rd Avenue West
Prince Rupert BC V8J 1M6
Telephone: 250 624-7734
Facsimile: 250 624-7737
Toll-Free: 1 866 624-7734



Province of
British Columbia
Legislative Assembly



Jennifer Rice, MLA
(North Coast)

Hon. Terry Lake
Room 337 - Parliament Buildings

June 2, 2014

Dear Minister Lake:

MINISTER'S OFFICE HEALTH	
# 101124-PPH	
DRAFT <input checked="" type="checkbox"/>	REPLY <input type="checkbox"/>
REPLY <input type="checkbox"/>	FYI <input type="checkbox"/>
JUN 02 2014	
<input type="checkbox"/> REPLY DIRECT	
<input type="checkbox"/> FILE	
REMARKS	
<input type="checkbox"/> AA	<input type="checkbox"/> MA
<input type="checkbox"/> EA	<input type="checkbox"/> CCU
<input type="checkbox"/> SA	<input type="checkbox"/> DM

1011563-HSWD

I would like to take this opportunity once again to thank you and your staff for the informative discussion in this year's Estimates.

I would also like to follow up on some information you offered to provide with regards to questions posed during the estimates process.

In particular, thank you for committing to provide the following:

- HSWD • The student enrolment numbers for the February 2014 Primary Care Paramedic QON# 10 - #1011563 Program in both Prince George and Cranbrook
- PPH • A breakdown of the distribution of industrial camps in northern BC QON# 8 - #101124

I understand that compiling such information will be more straightforward for some requests than for others; please provide me with the information as it becomes available.

Thank you in advance for providing my office with these materials, and I look forward to receiving it in a timely manner.

Sincerely,

Jennifer Rice, MLA
Critic for Rural and Northern Health



BRITISH
COLUMBIA

JUL 09 2014

1011124

JUL 08

Ms. Jennifer Rice
MLA, North Coast
818 – 3rd Ave W
Prince Rupert BC V8J 1M6

Dear Ms. Rice: *Jennifer*

Thank you for your letter of June 2, 2014, in follow up to your questions during the Ministry of Health's 2014/15 Estimates Debate. This letter is further to your request for a breakdown of the distribution of industrial camps in northern BC.

Considering the breadth of natural resource activities, there is no single avenue for gathering this information. To expand on my verbal response of May 29, 2014, the estimation I gave of the number and distribution of industrial camps in northern BC was grounded in the information presented in a document completed by the Northern Health Authority in 2012. This document, *Understanding the State of Industrial Camps in Northern BC: A Background Paper* (https://northernhealth.ca/Portals/0/About/NH_Reports/documents/2012%2010%2017_Ind_Camps_Backgrounder_P1V1Comb.pdf), draws together the information held by multiple agencies including the Oil and Gas Commission; the Ministry of Energy and Mines; the Ministry of Forests, Lands and Natural Resource Operations; FrontCounter BC; and, the local health authority. The report estimated that the number of known camps in the north (in 2012) was approximately 1,809.

As the report details, this is likely an overestimate considering that it includes proposed camps (not yet implemented) and multiple camp sites, which may not be concurrently occupied, but used by a single group of workers who move from site to site (such as pipeline construction or some forestry operations). Similarly, estimates of the number of workers that these camps may house, both currently and anticipated in the future, are based on the average number that may rotate in and out of camps given current labour needs, as well as the anticipated future activity proposed by various companies provided that their economic markets support continued activity at the same level.

In the two years since the report was published, it is estimated that 120 new camps have been created, primarily related to oil and gas. Some of these camps may have been decommissioned; however, another 30 camps are estimated to also be in the area related to mining and forestry activities. This does not take into account mining exploration or silviculture camps, which are transient and of short duration. Northern Health expects that the number of 150 will peak to a total of 200 new camps by the end of this summer.

...2

Ministry of
Health

Office of the
Minister

Mailing Address:
PO Box 9050 Stn Prov Govt
Victoria BC V8W 9E2

Location:
Parliament Buildings
Victoria

In terms of distribution, historically 60 to 70 percent has been for oil and gas activities, with 10 to 15 percent for forestry, and the rest related to mining. Without reconfirming the data collected in the 2012 report, it is difficult to estimate how many of the 1,809 camps estimated at that time may have been closed or decommissioned since the report was published; however, with the estimated 200 new camps since that time, the total number has likely increased.

Northern Health estimates that industrial camps across all sectors currently house 12,000 to 15,000 workers. This estimate is not only based on a consideration of the total number of camps, but also the variation in their size and function and their average staffing levels. This estimate does not include the number of workers from the same projects who are not residing in work camps, but who may rent or own property in the area, or who may be using alternative forms of accommodation such as hotels and other local business accommodations.

Thank you again for your letter, and I hope that this provides more clarity to the verbal response that I provided during the estimates process.

Sincerely,

A handwritten signature in cursive script, appearing to read 'T. Lake'.

Terry Lake
Minister

Currie, Patty L HLTH:EX

From: Docs Processing HLTH:EX
Sent: Thursday, June 19, 2014 1:10 PM
To: HLTH Ministers Office
Cc: Foran, Grace E HLTH:EX; Casanova, Tamara HLTH:EX; Docs Processing HLTH:EX; Murray, Wendy HLTH:EX; O'Callaghan, Jacqueline HLTH:EX; Jabs, Ryan GCPE:EX; Belanger, Matthew GCPE:EX
Subject: 1011447 - ProgGen IBN for MTL - Update on Amending the Industrial Camps Regulation
Attachments: 1011447 - Update on Amending the Industrial Camps Regulation.doc

Hi All:

The attached information BN has been prepared by PPH for Minister's information. It has been approved by Arlene Paton, ADM, Lynn Stevenson, Associate Deputy Minister and reviewed by Grace Foran.

Thanks so much,

Kathy Simonson
Program Coordinator / Documents Processing Unit / Deputy Minister's Office / Ministry of Health
5-2 1515 Blanshard St, Victoria BC V8W 3C8
Telephone 250 952-1811

kathy.simonson@gov.bc.ca

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**MINISTRY OF HEALTH
INFORMATION BRIEFING NOTE**

Cliff # 1011447

PREPARED FOR: Honourable Terry Lake, Minister of Health
- FOR INFORMATION

TITLE: Update on Amending the Industrial Camps Regulation

PURPOSE: To update the Minister on the status of the review currently being undertaken of the existing Industrial Camps Regulation (the Regulation).

BACKGROUND:

The existing Regulation governing work camps has been in place since 1983 and prescribes requirements specific to industrial camps. It is outdated and does not reflect current requirements related to other regulations under the *Public Health Act*, particularly as they relate to sewage, drinking water, food safety, and housing requirements. Furthermore, there is currently no requirement for camp operators to notify the health authority and, as a result, it is difficult for health authorities to be aware of location and number of work camps in their region.

DISCUSSION:

The current Regulation is out of date and highly prescriptive. Ministry of Health (MoH) is in the process of updating the requirements for industrial camps.

To date, MoH has undertaken an extensive consultation with industry stakeholders (oil and gas, forestry, mining, agriculture), local government, health authorities and the following government ministries: Environment; Natural Gas Development; Forests, Lands and Natural Resource Operations; Agriculture; Energy and Mines, and Justice.

Our primary goals throughout the consultation process have been to ensure an updated Regulation reflects current requirements for camps by:

- protecting the health of camp residents;
- managing environmental quality impacts;
- providing clarity and certainty to operators and camp residents on camp requirements; and
- allowing health authorities to take effective action in situations where health standards are lacking.

s.13,s.14

s.13

Currie, Patty L HLTH:EX

From: Docs Processing HLTH:EX
Sent: Tuesday, July 14, 2015 11:33 AM
To: HLTH Ministers Office; Jukes, Shaina HLTH:EX
Cc: Docs Processing HLTH:EX; Foran, Grace E HLTH:EX; Andrachuk, Andrea HLTH:EX; Marsh, Jania HLTH:EX; Obee, Sarah F HLTH:EX; Michell, Jennifer HLTH:EX
Subject: s.12,s.13,s.14
Attachments:

Hi all,

s.12,s.13,s.14

This information has been approved by Arlene

Paton, ADM and reviewed by Grace Foran.

Thanks,

Alex Iacob

Program Assistant

Documents Processing Unit | Deputy Minister's Office | Ministry of Health

Phone 250 952 -3244 Email alex.iacob@gov.bc.ca

MEETING MATERIAL

Cliff # 1037350

PREPARED FOR: Honourable Terry Lake, Minister of Health

TITLE: Meeting between Minister of Health, Minister of Agriculture and the BC Fruit Growers Association (BCFGA)

MEETING REQUEST/ISSUE: s.12,s.13,s.14
s.12,s.13,s.14

SHOULD MINISTRY STAFF ATTEND THIS MEETING: Yes, Silas Brownsey, Executive Director, Population Health Surveillance and Public Health Planning and Mike Zemanek, Director, Healthy Community Environments, Health Protection Branch.

BACKGROUND:
s.12,s.13,s.14

s.16

The federal government does not oversee compliance under the temporary foreign worker program and provincial health authorities respond only to complaints in work camps and do not receive notice on when and where they are operating.

The Ministry of Health has completed an extensive three-year consultation process on the regulation and supporting guidelines with industry stakeholders (e.g., oil and gas, forestry, mining and agriculture), local governments, health authorities and government ministries (e.g., Environment, Natural Gas Development, FLNRO and Agriculture).

During the consultations with the Agriculture sector, including the BCFGa and representatives from BC Agriculture Council, two main issues were raised:
s.12,s.13,s.14

s.12,s.13,s.14

Summary: The Industrial Camps Regulation currently captures all work camps, including agriculture work camps (not widely known throughout the sector). s.12,s.13,s.14
s.12,s.13,s.14

JOINT MINISTER MEETING: Y

IF SO, CAN THIS MATERIAL BE SHARED: Y

APPROVED BY: Arlene Paton, ADM, Population and Public Health

DATE APPROVED: July 14, 2015

Currie, Patty L HLTH:EX

From: Jukes, Shaina HLTH:EX
Sent: Monday, July 13, 2015 11:10 AM
To: Obee, Sarah F HLTH:EX
Cc: Merrifield, Katy HLTH:EX; Foran, Grace E HLTH:EX
Subject: s.12,s.13,s.14

We have fit in this as a call on July 16th (Minister Letnick is away at F/P/T) Can we please confirm attendees and possible materials on our end.

BRIEFING re: s.12,s.13,s.14

Participants:

Minister Lake
Staff TBC
Minister Letnick – via T/C
Staff TBC
Reg Ens, BCAC - via T/C
Glen Lucas, BCFG – via T/C

Date:

Thursday, July 16th

Time:

1:15pm-1:45pm

Location:

MO, 337

Conference Details are as follows

Dial-in Phone Numbers:

s.15,s.17

Access codes:

Participant Conference ID: s.15,s.17 # (Minister Letnick to Moderate)

Shaina Jukes

*Administrative Coordinator to the Honourable Terry Lake
Minister of Health | PO Box 9050 Stn Prov Govt Victoria, BC V8W 9E2
Phone: 250-953-3547 | Fax: 250-356-9587 | Hlth.Health@gov.bc.ca*

From: Merrifield, Katy HLTH:EX
Sent: Thursday, July 2, 2015 2:47 PM
To: Jukes, Shaina HLTH:EX
Subject: s.12,s.13,s.14

Can you touch base with Lisa J in AGR and get this meeting I've highlighted scheduled? LJ is taking the lead and I'm sure everyone's just waiting for the House schedule but I wanted to make sure this got locked down.

Thanks,

Katy Merrifield

Chief of Staff to the Honourable Terry Lake
Minister of Health

Office: (250) 953-3547

Katy.Merrifield@gov.bc.ca

From: Lake, Terry HLTH:EX

Sent: Thursday, July 2, 2015 12:34 PM

To: Merrifield, Katy HLTH:EX

Cc: Scheffel, Emile HLTH:EX

Subject: s.12,s.13,s.14

Yesm

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Merrifield, Katy HLTH:EX

Sent: Thursday, July 2, 2015 12:28 PM

To: Lake, Terry HLTH:EX

Cc: Scheffel, Emile HLTH:EX

Subject: s.12,s.13,s.14

s.12,s.13,s.14

Thanks,

Katy Merrifield

Chief of Staff to the Honourable Terry Lake
Minister of Health

Office: (250) 953-3547

Katy.Merrifield@gov.bc.ca

From: Lake, Terry HLTH:EX

Sent: Tuesday, June 30, 2015 4:52 PM

To: Merrifield, Katy HLTH:EX

Cc: Scheffel, Emile HLTH:EX

Subject: s.12,s.13,s.14

Ok then apply my e signature please.

Terry Lake DVM
Minister of Health

On Jun 30, 2015, at 4:16 PM, "Merrifield, Katy HLTH:EX" <Katy.Merrifield@gov.bc.ca> wrote:

s.12,s.13,s.14

Katy Merrifield

Chief of Staff to the Honourable Terry Lake

Minister of Health

Office: (250) 953-3547

Katy.Merrifield@gov.bc.ca

From: Lake, Terry HLTH:EX

Sent: Tuesday, June 30, 2015 3:44 PM

To: Merrifield, Katy HLTH:EX

Cc: Scheffel, Emile HLTH:EX

Subject: s.12,s.13,s.14

We better get them on it.

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Merrifield, Katy HLTH:EX

Sent: Tuesday, June 30, 2015 3:39 PM

To: Lake, Terry HLTH:EX

Cc: Scheffel, Emile HLTH:EX

Subject: s.12,s.13,s.14

s.12,s.13,s.14

Please let me know your thoughts,

Katy Merrifield

Chief of Staff to the Honourable Terry Lake

Minister of Health

Office: (250) 953-3547

Katy.Merrifield@gov.bc.ca

From: Paton, Arlene HLTH:EX

Sent: Friday, June 26, 2015 12:50 PM

To: Lake, Terry HLTH:EX

Cc: Merrifield, Katy HLTH:EX; O'Brien, Kellie HLTH:EX

Subject: s.12,s.13,s.14

Minister,

s.22

but I have spoken with the program area and we are aware of these concerns. We will connect with our colleagues in Agriculture on Monday and provide you with some further details then.

Thanks,
Silas Brownsey

From: Lake, Terry HLTH:EX
Sent: Friday, June 26, 2015 10:45 AM
To: Paton, Arlene HLTH:EX
Cc: Merrifield, Katv HLTH:EX; O'Brien, Kellie HLTH:EX
Subject: s.12,s.13,s.14

Arlene

s.12,s.13,s.14

Thanks, Terry

Terry Lake DVM
Minister of Health

Begin forwarded message:

From: "Letnick, Norm AGRI:EX" <Norm.Letnick@gov.bc.ca>
Date: June 25, 2015 at 5:58:12 PM PDT
To: "Lake, Terry HLTH:EX" <Terry.Lake@gov.bc.ca>
Subject: Fwd: s.12,s.13,s.14

Hi Terry,

Sorry to bother you. I'm sure you, like I, have lots on the go but could you have a look at this please?

Norm Letnick, MLA
Minister of Agriculture

Begin forwarded message:

From: "Maurmann, Katja LASS:EX"
<Katja.Maurmann@leg.bc.ca>
Date: June 25, 2015 at 4:30:13 PM PDT
To: "Letnick, Norm AGRI:EX" <Norm.Letnick@gov.bc.ca>
Subject: FW: s.12,s.13,s.14

Hi Norm,
Glen called wanting to speak with you s.12,s.13,s.14
s.12,s.13,s.14 I have the call in your calendar for

9:30 am tomorrow. It will only be Glen ...not Fred or the BC tree fruit group.

K

From: Glen Lucas [<mailto:glucas@bcfga.com>]

Sent: June 25, 2015 4:23 PM

To: Maurmann, Katja

Subject: s.12,s.13,s.14

Norm,

s.12,s.13,s.14

Thanks,
Glen

--

Glen Lucas, MBA, P.Ag.
General Manager
BC Fruit Growers' Association
1473 Water Street, Kelowna, BC V1Y-1J6
250-762-5226 (ext. 23)

Currie, Patty L HLTH:EX

From: Obee, Sarah F HLTH:EX
Sent: Monday, July 13, 2015 12:07 PM
To: Cowan, Darynn HLTH:EX; Muller, Bev HLTH:EX
Cc: Foran, Grace E HLTH:EX; Docs Processing HLTH:EX; Marsh, Jania HLTH:EX; Michell, Jennifer HLTH:EX
Subject: 1037350 - incoming - s.12,s.13,s.14
Importance: High

Hi Bev (in Darynn's absence).

The MO has confirmed the above noted Minister Briefing with Minister Letnick. Details are below.

Date: July 16, 2015
Time: 1 15 pm – 1 45pm
Location: Boardroom Minister's Office Room 337

Conference Details are as follows

Dial-in Phone Numbers:

s.15,s.17

Access codes:

Participant Conference ID: s.15,s.17 # (Minister Letnick to Moderate)

Agenda Items:

s.12,s.13,s.14

Additional details: Background attached.

Calendar invites will be sent to Lynn Stevenson and Arlene Paton to attend. **Please advise if any additional staff will need to be included.**

***Important: Please advise if any ministry staff will be attending in person at the Minister's Office.**

Materials: DocsProcessing will assign formally for materials as per usual process. Due date for final materials to the MO is end of day tomorrow. Apologies for the quick turnaround.

Please don't hesitate to give me a call if there are any concerns.

Many thanks,

Sarah Obee
Executive Coordinator to Stephen Brown
Deputy Minister of Health
PH: 250 952 1410
Fx: 250 952 1909
Sarah.obee@gov.bc.ca

Currie, Patty L HLTH:EX

From: Obee, Sarah F HLTH:EX
Sent: Monday, July 13, 2015 12:30 PM
To: Cowan, Darynn HLTH:EX; Muller, Bev HLTH:EX
Cc: Foran, Grace E HLTH:EX; Docs Processing HLTH:EX; Marsh, Jania HLTH:EX; Michell, Jennifer HLTH:EX
Subject: s.12,s.13,s.14
Attachments:

This time with the attachment. Apologies.

Sarah Obee
Executive Coordinator to Stephen Brown
Deputy Minister of Health
PH: 250 952 1410
Fx: 250 952 1909
Sarah.obee@gov.bc.ca

From: Obee, Sarah F HLTH:EX
Sent: Monday, July 13, 2015 12:07 PM
To: Cowan, Darynn HLTH:EX; Muller, Bev HLTH:EX
Cc: Foran, Grace E HLTH:EX; Docs Processing HLTH:EX; Marsh, Jania HLTH:EX; Michell, Jennifer HLTH:EX
Subject: s.12,s.13,s.14
Importance: High

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Participant Conference ID: s.15,s.17 # (Minister Letnick to Moderate)

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s.12,s.13,s.14

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Many thanks,

Sarah Obee
Executive Coordinator to Stephen Brown
Deputy Minister of Health
PH: 250 952 1410
Fx: 250 952 1909
Sarah.obee@gov.bc.ca

Currie, Patty L HLTH:EX

From: Docs Processing HLTH:EX
Sent: Thursday, June 19, 2014 1:10 PM
To: HLTH Ministers Office
Cc: Foran, Grace E HLTH:EX; Casanova, Tamara HLTH:EX; Docs Processing HLTH:EX; Murray, Wendy HLTH:EX; O'Callaghan, Jacqueline HLTH:EX; Jabs, Ryan GCPE:EX; Belanger, Matthew GCPE:EX
Subject: 1011447 - ProgGen IBN for MTL - Update on Amending the Industrial Camps Regulation
Attachments: 1011447 - Update on Amending the Industrial Camps Regulation.doc

Hi All:

The attached information BN has been prepared by PPH for Minister's information. It has been approved by Arlene Paton, ADM, Lynn Stevenson, Associate Deputy Minister and reviewed by Grace Foran.

Thanks so much,

Kathy Simonson
Program Coordinator / Documents Processing Unit / Deputy Minister's Office / Ministry of Health
5-2 1515 Blanshard St, Victoria BC V8W 3C8
Telephone 250 952-1811

kathy.simonson@gov.bc.ca

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**MINISTRY OF HEALTH
INFORMATION BRIEFING NOTE**

Cliff # 1011447

PREPARED FOR: Honourable Terry Lake, Minister of Health
- FOR INFORMATION

TITLE: Update on Amending the Industrial Camps Regulation

PURPOSE: To update the Minister on the status of the review currently being undertaken of the existing Industrial Camps Regulation (the Regulation).

BACKGROUND:

The existing Regulation governing work camps has been in place since 1983 and prescribes requirements specific to industrial camps. It is outdated and does not reflect current requirements related to other regulations under the *Public Health Act*, particularly as they relate to sewage, drinking water, food safety, and housing requirements. Furthermore, there is currently no requirement for camp operators to notify the health authority and, as a result, it is difficult for health authorities to be aware of location and number of work camps in their region.

DISCUSSION:

The current Regulation is out of date and highly prescriptive. Ministry of Health (MoH) is in the process of updating the requirements for industrial camps.

To date, MoH has undertaken an extensive consultation with industry stakeholders (oil and gas, forestry, mining, agriculture), local government, health authorities and the following government ministries: Environment; Natural Gas Development; Forests, Lands and Natural Resource Operations; Agriculture; Energy and Mines, and Justice.

Our primary goals throughout the consultation process have been to ensure an updated Regulation reflects current requirements for camps by:

- protecting the health of camp residents;
- managing environmental quality impacts;
- providing clarity and certainty to operators and camp residents on camp requirements; and
- allowing health authorities to take effective action in situations where health standards are lacking.

s.13,s.14

s.13

Program ADM/Division: Arlene Paton, Population and Public Health, Ministry of Health
Telephone: 250-952-1731

Program Contact (for content): Tim Lambert, Executive Director, Health Protection Branch
Drafter: Bill Edwards/Mike Zemanek **Date:** June 16, 2014

Page 145 to/à Page 165

Withheld pursuant to/removed as

s.12;s.14;s.13

FACT SHEET

Industrial Camps Regulation

ISSUE

- The Ministry of Health has completed an extensive (3 year) consultation process^{s.12,s.13,s.14}
s.12,s.13,s.14
- Health Authorities, Industry and Local Governments may be expecting a new regulation to deal with inadequacies in the current ICR.

KEY FACTS

- The existing ICR has been in place since 1983. It is outdated and does not reflect current outcome-based requirements for sewage, drinking water, food safety, waste management and housing.^{s.12,s.13,s.14}
s.12,s.13,s.14
- s.12,s.13,s.14
- The number of work camps operating in BC is uncertain because there is no requirement under the current Industrial Camps Regulation for them to notify the health authorities of their intent to construct and/or operate a camp.^{s.12,s.13,s.14}
- The proposed WCR was developed after an extensive consultation with both industry and government stakeholders.
- In addition to health authorities, feedback on the regulatory amendment has been provided by:
 - Ministry of Natural Gas Development and Responsible for Housing;
 - Ministry of Forests, Land and Natural Resource Operations;
 - Ministry of Energy and Mines;
 - Ministry of Environment;
 - Ministry of Agriculture;
 - Ministry of Community, Sport and Cultural Development;
 - BC Oil and Gas Commission;
 - Operators of work camps;
 - Industry (e.g., Canadian Association of Petroleum Producers, Council of Forest industries, BC Agriculture Council, BC Mining Association); and
 - Worksafe BC.
s.12,s.13,s.14
-
-
-
-

FACT SHEET

● s.12,s.13,s.14

- Health authority staff are responsible for the inspection of work camps currently under the Industrial Camps Regulation.
- With Cabinet's decision, work camps will continue to be governed under the Industrial Camps Regulation under the *Public Health Act*. Implications of this include:
 - Certain industry sectors, particularly agriculture and forestry, will continue to have difficulty meeting the requirements of the current Industrial Camps Regulation. s.16
 - Some local governments like the Peace River Regional District have been critical of government in the media for not having a handle on the number of work camps in the north, which affects local planning. Northern Health Authority has an idea of the number of large camps through the environmental assessment process, but numerous smaller camps will continue to be difficult to locate and integrate into community planning.
 - Health authority resources will continue to be needed to approve all sewage systems at work camps. s.12,s.13,s.14
 - Industry groups in oil & gas, mining, forestry and agriculture participated in the development of the regulatory provisions through the guideline development process over the past three years and were therefore anticipating the updated regulation.
 - Food premises in work camps will continue to go unregulated because they are not covered by the Food Premises Regulation.
- The Ministry is working with GCPE to develop a communication plan to ensure stakeholders understand the status quo.

FINANCIAL IMPLICATIONS (if not applicable please indicate N/A)

N/A

Approved by:

Alrene Paton, Population and Public Health Division; May 2, 2016

Currie, Patty L HLTH:EX

From: Suzanne Garrett <Suzanne.Garrett@prrd.bc.ca>
Sent: Friday, June 3, 2016 12:47 PM
To: OfficeofthePremier, Office PREM:EX
Cc: Minister, HLTH HLTH:EX; DMOFFICE, HLTH HLTH:EX; Minister, PSSG PSSG:EX; Kendall, Perry HLTH:EX; Bernier.MLA, Mike LASS:EX; Pimm.MLA, Pat LASS:EX; admin@nclga.ca; Chris Cvik
Subject: BC Guidelines for Work Camp Operations
Attachments: L_AChair_Premier workcamp.pdf

Good afternoon,

At its May 12, 2016 meeting the Peace River Regional District Board discussed Work Camp Guidelines and Regulations.

Please find attached a letter with respect to that subject.

Thank you for your consideration of the Regional Board's concerns.

Suzanne Garrett | Corporate Services Coordinator
Direct: **250-784-3206** | suzanne.garrett@prrd.bc.ca

PEACE RIVER REGIONAL DISTRICT | Box 810, 1981 Alaska Highway Avenue, Dawson Creek, BC V1G 4H8
Toll Free: (24 hrs): **1-800-670-7773** | Office: **250-784-3200** | Fax: **250-784-3200** | www.prrd.bc.ca



PEACE RIVER REGIONAL DISTRICT



ICT

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PEACE RIVER REGIONAL DISTRICT

June 3, 2016

The Honourable Christy Clark
Premier of British Columbia
Box 9041, Stn Prov Govt.,
Victoria, BC V8W 9E1
via email: premier@gov.bc.ca

Dear Premier Clark:

We are writing to request that the completion and release of the final version of the BC Guidelines for Work Camp Operations be considered as imperative.

As you are aware, currently there is no single entity that tracks the existence and location of work camp operations. Various agencies such as the Oil and Gas Commission, Ministry of Health, Ministry of Environment, BC Assessment, and Peace River Regional District, all have knowledge of certain work camp operations, but no single group has access to a consolidated list of who is operating and where. The lack of this vital information by a single agency was emphasized during the recent extensive rural wildfires in the Regional District. Evacuation Orders and Alerts were issued without full knowledge of whether or not all work camp operations were properly notified and accounted for. Fortunately, there were no reports of work camp operations not being notified, but the significant risk remains.

Provincial approval and adoption of the BC Guidelines for Work Camp Operations document will result in a work camp with five or more beds having to register with the health authority. The information they provide through the Environmental Health Plan as part of the registration process will provide valuable information on the location of work camps how many beds (possible evacuees) are involved.

diverse. vast. abundant.

PLEASE REPLY TO:

☒ Box 810, 1981 Alaska Ave, Dawson Creek, BC V1G 4H8 Tel: (250) 784-3200 or (800) 670-7773 Fax: (250) 784-3201 Email: prrd.dc@prrd.bc.ca
☐ 9505 100 St, Fort St. John, BC V1J 4N4 Tel: (250) 785-8084 Fax: (250) 785-1125 Email: prrd.fsj@prrd.bc.ca

Although the primary intent of the Work Camp Operations Guidelines document is to establish minimum conditions essential to good health, the benefit of sharing the Environment Health Plan information will allow the Regional District to develop better plans during emergencies and aid in day to day planning by knowing who is operating in the Electoral Areas.

Yours truly,



Brad Sperling
Acting Chair

cc: The Honourable Terry Lake, Minister of Health hlth.minister@gov.bc.ca
Deputy Minister Stephen Brown, Ministry of Health hlth.dmooffice@gov.bc.ca
The Honourable Mike Morris, Minister of Public Safety and Solicitor General
PSSG.Minister@gov.bc.ca
Dr. Perry Kendall, Provincial Health Officer Perry.Kendall@gov.bc.ca
Mike Bernier, MLA – Peace River South mike.bernier.MLA@leg.bc.ca
Pat Pimm, MLA – Peace River North pat.pimm.MLA@leg.bc.ca
NCLGA admin@nclga.ca

Currie, Patty L HLTH:EX

From: Dhanowa, Damon HLTH:EX
Sent: Friday, June 3, 2016 5:55 PM
To: Cambiazo, Valentina C HLTH:EX; Tyson, Jo HLTH:EX
Cc: Docs Processing HLTH:EX; Will, Jordan HLTH:EX; Godfrey, Debbie HLTH:EX
Subject: Fw: BC Guidelines for Work Camp Operations
Attachments: L_AChair_Premier workcamp.pdf

Hi Valentina,

Can you please confirm this would be a health lead and coordinate response if cross ministry. Thanks :D
2508847656

From: Westcott, William PREM:EX
Sent: Friday, June 03, 2016 1:52 PM
To: Dhanowa, Damon HLTH:EX
Subject: FW: BC Guidelines for Work Camp Operations

Hi Damon,

Please see attached letter, which it appears your office should also have received a copy of. Can we leave this with you for a response obo PCC?

Thanks,

Will Westcott

Correspondence Officer
Office of the Premier

From: Suzanne Garrett [<mailto:Suzanne.Garrett@prrd.bc.ca>]
Sent: Friday, June 3, 2016 12:47 PM
To: OfficeofthePremier, Office PREM:EX
Cc: Minister, HLTH HLTH:EX; DMOFFICE, HLTH HLTH:EX; Minister, PSSG PSSG:EX; Kendall, Perry HLTH:EX; Bernier.MLA, Mike LASS:EX; Pimm.MLA, Pat LASS:EX; admin@nclga.ca; Chris Cvik
Subject: BC Guidelines for Work Camp Operations

Good afternoon,

At its May 12, 2016 meeting the Peace River Regional District Board discussed Work Camp Guidelines and Regulations. Please find attached a letter with respect to that subject.

Thank you for your consideration of the Regional Board's concerns.

Suzanne Garrett | Corporate Services Coordinator
Direct: 250-784-3206 | suzanne.garrett@prrd.bc.ca



PEACE RIVER REGIONAL DISTRICT | Box 810, 1981 Alaska Highway Avenue, Dawson Creek, BC V1G 4H8

Toll Free: (24 hrs): 1-800-670-7773 | Office: 250-784-3200 | Fax: 250-784-3200 | www.prrd.bc.ca



PEACE RIVER REGIONAL DISTRICT

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BRITISH
COLUMBIA

JUL 26 2016

Mr. Brad Sperling
Acting Chair
Peace River Regional District
Box 810 - 1981 Alaska Ave
Dawson Creek BC V1G 4H8

1056859

Dear Mr. Sperling,

Thank you for your letter of June 3, 2016, requesting the completion and release of a final version of the BC Guidelines for Work Camp Operations (the Guidelines). The letter was forwarded to me by the Honourable Christy Clark, Premier, for a detailed response.

The Guidelines you refer to were a consultative draft that was structured to support an amended Industrial Camp Regulation that was under consideration by government. The Guidelines will not be formally released until a new regulation comes into force because the requirements need legislative support in order for them to apply. Consequently, the Industrial Camp Regulation remains in effect and applies to work camps in your area for the foreseeable future.

While there are no provisions for notifying the health authority in terms of the camp location and environmental health plan under the existing regulations, I would encourage you to work with the Northern Health Authority as there are, in some cases, provisions to obtain approvals for water and sewage applications for work camps. Allan Torng is the Regional Director at the Northern Health Authority (email: allan.torng@northernhealth.ca; phone: 250 565-2623). You may wish to contact him to explore any options for tracking work camps through existing procedures or permitting processes. Another option would be to engage industry through their corresponding associations to see if a voluntary best practices approach for information sharing with the regional district to ensure camp and worker safety would be feasible.

Thank you once again for your inquiry.

Sincerely,

Terry Lake
Minister

pc: Deputy Minister Steve Brown, Ministry of Health
Honourable Mike Morris, Minister of Public Safety and Solicitor General
Dr. Perry Kendall, Provincial Health Officer
Mr. Mike Bernier, MLA, Peace River South
Mr. Pat Pimm, MLA, Peace River North
NCLGA
Mr. Allan Torng, Regional Director, Regional Director for Health Protection

Currie, Patty L HLTH:EX

From: Ronda Wilkins <Ronda.Wilkins@prrd.bc.ca>
Sent: Friday, April 7, 2017 10:02 AM
To: Yamamoto.MLA, Naomi LASS:EX; Minister, EP TRAN:EX
Cc: Minister, HLTH HLTH:EX; DMOFFICE, HLTH HLTH:EX; Minister, PSSG PSSG:EX; Todd.stone.MLA@leg.bc.ca; Transportation, Minister TRAN:EX; Kendall, Perry HLTH:EX; Bernier.MLA, Mike LASS:EX; admin@nclga.ca; Chris Cvik; PRRD_Internal
Subject: PPH - Provincial Register for Industrial Work Camps
Attachments: Min ltr re- provincial register workcamps.pdf

Categories: FYI

PLEASE SEND TO PPH AS FYI. THANK YOU

Please find attached our letter regarding a request that Emergency Management BC (EMBC) undertake efforts to develop a Provincial register for industrial work camps. If you have any questions please contact Chris Cvik, CAO of the Peace River Regional District at chris.cvik@prrd.bc.ca

Thank you

Ronda

Ronda Wilkins | Executive Assistant

Direct: 250-784-3207 | ronda.wilkins@prrd.bc.ca

PEACE RIVER REGIONAL DISTRICT | Box 810, 1981 Alaska Highway Avenue, Dawson Creek, BC V1G 4H8

Toll Free: (24 hrs): 1-800-670-7773 | Office: 250-784-3200 | Fax: 250-784-3201 | www.prrd.bc.ca



PEACE RIVER REGIONAL DISTRICT



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PEACE RIVER REGIONAL DISTRICT

April 7, 2017

The Honourable Naomi Yamamoto
Minister of State for Emergency Preparedness
PO Box 9071
STN PROV GOV
Victoria, BC V2W 9E2

Dear Minister Yamamoto,

The Board of the Peace River Regional District (PRRD) is writing to request that Emergency Management BC (EMBC) undertake efforts to develop a Provincial register for industrial work camps.

The PRRD has been waiting for Cabinet to approve amended Industrial Camp Regulations (BC Guidelines for Work Camp Operations) that were under consideration by the Provincial Government. Passage of this important legislation would have required health authorities to be notified of industrial camp locations and for these camps to file environmental health plans. The information is vital to the Regional District as there does not currently exist a single agency that tracks the location of work camps and the legislation's passage would have provided this required information.

We were recently informed that the draft regulations did NOT pass at Cabinet and a voluntary document entitled Health and Medical Services Plan Best Management Guide remains in place. The only time this voluntary document is required is when it is included as a condition in an Environmental Assessment (EA) Certificate (making it a legally binding document). As not all projects trigger an EA, the voluntary guidelines fall short of providing any useful information to regional districts on the location and size of industrial work camps.

The lack of information on the location and size of work camps makes it difficult for the Regional District to develop evacuation plans that are used during emergencies such as those that occurred in 2016 due to fires and flooding. As the PRRD is responsible for emergency response planning in our region, it is critical that we have access to up-to-date information on the location and size of work camps and look to your Ministry for support.

Thank you for any assistance that you can provide.



Brad Sperling, Chair
Peace River Regional District

Attachment: June 3, 2016 letter to Premier Christy Clark

Cc:

The Honourable Terry Lake – Minister of Health hlth.minister@gov.bc.ca

Deputy Minister Stephen Brown – Ministry of Health hlth.dmooffice@gov.bc.ca

The Honourable Mike Morris, - Minister of Public Safety and Solicitor General PSSG.

PSSG.Minister@gov.bc.ca

The Honourable Minister Todd Stone – Minister of Transportation & Inf. Todd.stone.MLA@leg.bc.ca

Dr. Perry Kendall, Provincial Health Officer Perry.kendall@gov.bc.ca

Mike Bernier, MLA – Peace River South mike.bernier.MLA@leg.bc.ca

NCLGA – admin@nclga.ca

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PLEASE REPLY TO:



Box 810, 1981 Alaska Ave, Dawson Creek, BC V1G 4H8 Tel: (250) 784-3200 or (800) 670-7773 Fax: (250) 784-3201 Email: prrd.dc@prrd.bc.ca



9505 100 St, Fort St. John, BC V1J 4N4 Tel: (250) 785-8084 Fax: (250) 785-1125 Email: prrd.fsj@prrd.bc.ca



PEACE RIVER REGIONAL DISTRICT

June 3, 2016

The Honourable Christy Clark
 Premier of British Columbia
 Box 9041, Stn Prov Govt.,
 Victoria, BC V8W 9E1
 via email: premier@gov.bc.ca

Dear Premier Clark:

We are writing to request that the completion and release of the final version of the BC Guidelines for Work Camp Operations be considered as imperative.

As you are aware, currently there is no single entity that tracks the existence and location of work camp operations. Various agencies such as the Oil and Gas Commission, Ministry of Health, Ministry of Environment, BC Assessment, and Peace River Regional District, all have knowledge of certain work camp operations, but no single group has access to a consolidated list of who is operating and where. The lack of this vital information by a single agency was emphasized during the recent extensive rural wildfires in the Regional District. Evacuation Orders and Alerts were issued without full knowledge of whether or not all work camp operations were properly notified and accounted for. Fortunately, there were no reports of work camp operations not being notified, but the significant risk remains.

Provincial approval and adoption of the BC Guidelines for Work Camp Operations document will result in a work camp with five or more beds having to register with the health authority. The information they provide through the Environmental Health Plan as part of the registration process will provide valuable information on the location of work camps how many beds (possible evacuees) are involved.

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PLEASE REPLY TO:

☒ Box 810, 1981 Alaska Ave, Dawson Creek, BC V1G 4H8 Tel: (250) 784-3200 or (800) 670-7773 Fax: (250) 784-3201 Email: prrd.dc@prrd.bc.ca
☐ 9505 100 St, Fort St. John, BC V1J 4N4 Tel: (250) 785-8091 Fax: (250) 785-8092 Email: prrd.fs@prrd.bc.ca

Premier Christy Clark
June 3, 2016

Page 2

Although the primary intent of the Work Camp Operations Guidelines document is to establish minimum conditions essential to good health, the benefit of sharing the Environment Health Plan information will allow the Regional District to develop better plans during emergencies and aid in day to day planning by knowing who is operating in the Electoral Areas.

Yours truly,



Brad Sperling
Acting Chair

cc: The Honourable Terry Lake, Minister of Health hlth.minister@gov.bc.ca
Deputy Minister Stephen Brown, Ministry of Health hlth.dmooffice@gov.bc.ca
The Honourable Mike Morris, Minister of Public Safety and Solicitor General
PSSG.Minister@gov.bc.ca
Dr. Perry Kendall, Provincial Health Officer Perry.Kendall@gov.bc.ca
Mike Bernier, MLA – Peace River South mike.bernier.MLA@leg.bc.ca
Pat Pimm, MLA – Peace River North pat.pimm.MLA@leg.bc.ca
NCLGA admin@nclga.ca

August 11, 2016

JUL 26 2016



Mr. Brad Sperling
Acting Chair
Peace River Regional District
Box 810 - 1981 Alaska Ave
Dawson Creek BC V1G 4H8

Dear Mr. Sperling,

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Terry Lake
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