#### NWB Manager of Licensing

From: Sylvia Novoligak [snovoligak@nirb.nunavut.ca]

Tuesday, March 22, 2005 4:39 PM Sent:

ghakongak@ntilands.com; Jeannie Ehaloak; Imanzo@arctic.ca; Stephen Hartman; Luke Suluk; To:

joleekatalik@npc.nunavut.ca; licensing@nwb.nunavut.ca; jgalipeau@nwmb.com;

kwflucy@saltspring.com; wbeveridge@ihti.ca; Spencer Dewar; enor@inac.gc.ca; Scott Stewart; MoggyD@DFO-MPO.GC.CA; GordanierT@DFO-MPO.GC.CA; colette.spagnuolo@ec.gc.ca; mike.fournier@ec.gc.ca; gmackay@gov.nu.ca; ebaddaloo@gov.nu.ca; Mike Atkinson; Nigel Qaumariaq; GLemus@GOV.NU.CA; Bruce Trotter; Isaac Sobol; rchapple@gov.nu.ca; Julie Ross;

maureen@nunavuttourism.com; mcampbell@gov.nu.ca; dshewchuk@gov.nu.ca;

charlotte hickes330@hotmail.com

Subject: 05EN020-Mining Exploration and Campsite, BHP Diamonds Inc., Repulse Bay Area

Please review and respond by: April 12, 2005.

Quana.

Sylvia Novoligak Screener Administrator Trainee Nunavut Impact Review Board P.O. Box 2379 Cambridge Bay, NU X0B 0C0

Toll Free: 1-866-233-3033

Ph: 867-983-4613 Fax: 867-983-2594

Email: snovoligak@nirb.nunavut.ca Website: http://nirb.nunavut.ca ftp site: http://ftp.nunavut.ca/nirb/

Nunavut Water Board

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INTERNAL

March 22, 2005

Dear Kivalliq Distribution List

Re: Your comments on this application.

NIRB#: 05EN020

Project: Mining Exploration and Campsite Proponent: BHP Billiton Diamonds Inc.

Nunavut Impact Review Board has received an application for a Mining Exploration and Campsite near Repulse Bay. Please use NIRB file No. 05EN020 and the contact person listed below, in all future correspondence regarding this application.

The application documents are available through the internet on the NIRB ftp site at <a href="https://www.//ftp.nunavut.ca/nirb">www://ftp.nunavut.ca/nirb</a> in the folder "05EN020-Mining Exploration and Campsite, BHP Billiton Diamonds Inc. ".

Please assess the project proposal for the potential effects on the ecosystemic and socio-economic environments, from your knowledge of the area or your field of expertise.

Please forward your comments and recommendations to NIRB by April 12, 2005 1:00pm local time.

A comment form has been included with the package.

If you have any questions regarding the application, please do not hesitate to contact our office. Your input is greatly appreciated.

Yours truly,

Sylvia Novoligak Environmental Screener Trainee Phone (867) 983-4613 Fax (867) 983-2574 or (867) 983-2594

#### COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and scioeconomic impacts of the project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Mining Exploration a	and Campsite			
Proponent: BHP Billiton Diamond	s Inc.			
Location: Repulse Bay Area				
Comments Due By: April 12, 2005	NIRB #: 05EN020			
J				
Indicate your concerns about the pro	iect proposal below:			
no concerns	□ traditional uses of land			
□ water quality	☐ Inuit harvesting activities			
□ terrain □ community involvement and consultation				
□ air quality	□ local development in the area			
☐ wildlife and their habitat	□ tourism in the area			
marine mammals and their habitat	☐ human health issues			
□ birds and their habitat □ other:				
☐ fish and their habitat				
☐ heritage resources in area				
Please describe the concerns indicate	d above:			
Do you have any suggestions or recor				
Do you support the project proposal.	? Yes □ No □ Any additional comments?			
Name of person commenting:	of			
Position:	Organization:			
Signature:	Datas			

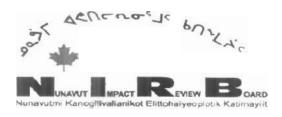
## KIVALLIQ INITI ASSOCIATION

#### APPLICATION FOR ACCESS TO INUIT OWNED LAND

Office use only			
Category	Application No:	Accepted By:	Dare Add Hill ASSO
	KV1305 BUZ	Vatterin	er 1041 - 479
To be completed by all a	pplicants		FANN MET N
	nailing address (Full name, no initia	ls or abbreviations)	Fax no
SHP Billiton Diamonds Inc	'n		(01 (82 4125
2300 - 1111 West Georgia	a St, Vancouver, BC V6E 4M3		604 683 4125 Telephone no.
			604 632-1450
2. Head Office address			Fax no.
As above			
			Telephone no.
. Field supervisor and add	ress if different from above		Telephone no.
igfried Weidner			604 632-1459
. Other personnel list (Sub	contractors or contractors to be use	d)	
Great Slave Helicopters			
Boart Longyear (diamond	drilling)		
SDS Drilling (possibly)			
Total no. of personnel: t	o a maximum of about 12 No.	of person days: ~180	
Location of activities by	map coordinates. Attach ORIGIN.	L maps and sketches.	
MAX Lat Min 50	MIN Lat Deg 66	MIN Lat Min 0	MAX Lat Deg 67
MAX Long Min 55	MIN Long Deg 86	MIN Long Min 30	MAX Long Deg 87
Map Sheet No: 46L,M	Inuit Lan	d Parcel No: RE - 23, RE - 2	20
coordinate of camp (if appli	cable) Lar	" Long.	Q ( ((

February due to limited light for flying	rg.	t too timinisies signific	antly from October through
7. Period of access required (up to depending on license level, residential/recreational leases at leases, and up to forty years for l	up to five years for and level I and II commercial	Start date March 15, 2005	Completion Date March 15, 2006
<ol> <li>Other rights, licenses, permits or le of applying for rights.</li> </ol>	eases related to this application.	Provide proof of rights of	r indicate if in the process
NTI Subsurface Right  x DIAND Subsurface Right  x NWB Water License	☐ NRI Research License ☐ RWED Tourism Licen ☐ Explosives Permit		/S Permit ner – Please Specify
9. TYPE OF LAND USE ACTIVITY Check off the appropriate land use activity  Mining/Oil & Gas  x staking and prospecting x exploration (geophys-grid/air) x drilling (diamond/ice, etc.)  bulk sampling unine (open pit, undergrd, etc.) bulk fuel storage other:	Construction:    camp   building   winter road   all-seasou road   quarrying   other.	utfi uther	
Municipality:    bulk storage of fuel     residential building     commercial building     other:	Research:  wildlife/fish/bird  survey (grd/aeria  collection of spec	I/collars)	nercial harvest ational camp
10. On a separate page, provide a NO	han 300 words, in English and	ary. This should include Inuktituk (Inuinaletun, in ecessity, method of transp	the West Kitikmeot). The

12.	Application Fees:			Inuit - \$0 Non-Inuit - \$250	000	Commercial Lease I Commercial Lease II Commercial Lease III	\$500 \$2000 \$5000
		ised @ \$50.00/hectare - \$_					
Note:	The land use fee is for the a	mount of land used on an annus	al basis.				
13. 8	a) The Applicant requests	a Certificate of Exemption					
	OR						
	b) The Applicant agrees Lease. x	to be bound by terms and co	onditions to	be attached to the Y	nuit	Land Use License or	
	Sign uzme in full.	Signature		Date 23	-1	2.04	



# PART 1 PROJECT PROPOSAL INFORMATION REQUIREMENTS

For more information about the Nunavut Impact Review Board (NIRB) please visit our web site <a href="http://nirb.nunavut.ca/">http://nirb.nunavut.ca/</a> or to access NIRB documents, project screenings, and project reviews please visit the Nunavut Impact Review Board ftp site <a href="http://ftp.nunavut.ca/nirb">http://ftp.nunavut.ca/nirb</a>.

#### **IMPORTANT**

Please be advised that your application will not be processed until the following sections 1 - 6 are completed in full in English and Inuktitut (+ Inuinnaqtun, if in the Kitikmeot).

ea lati	roject Number se indicate if applicant has submitted any previous applied to this project proposal? s, please indicate the previous NIRB project ber(s):	ication(s) to	NIRB Yes No x
	Applicant's full name and mailing address:		
-	BHP Billiton Diamonds Inc	Fax:	604 683-4125
-	2300 - 1111 West Georgia Street	Phone:	604 632-1450
-	Vancouver, BC	Email:	
-	V6E 4M3	_ Email.	
		Fax:	604 683-4125 604 632-1451
	Primary contact's full name and mailing address: Jeremy Howe	Fax:	604 683-4125 604 632-1451 jeremy.j.howe@bhpbilliton.com

Page 1 of 7

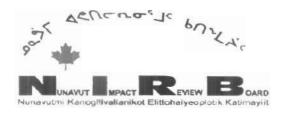


#### **SECTION 2: AUTHORIZATION NEEDED**

. Indicate all authorizati	ons associated wit	h the project	proposal:
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ı	X	Regional Inuit Association (RIA)
ĺ	Х	Nunavut Water Board (NWB)
l		Nunavut Planning Commission (NPC)
	X	Department of Indian And Northern Development (DIAND)
		Department of Fisheries and Oceans (DFO)
		Community Government & Services (CG&S)
		Nunavut Research Institute (NRI)
		Hamlet
		Canadian Launch Safety (CLS)
		Environment Canada (EC)
		Government of Nunavut (GN)
		Department of National Defense (DND)
		Department of Culture, Language, Elders, and Youths (CLEY)
		Parks Canada (PC)
		Other (please specify):

 List the <u>active</u> permits, licences, or other rights related to the project and their expiry date: NWB2REP0305 exp. May 31, 2005 / DIAND Lic. N2003C006 exp April 1, 2006 / KIA Lic. KVL102C260 exp. June 1, 2005



#### SECTION 3: PROJECT PROPOSAL DESCRIPTION

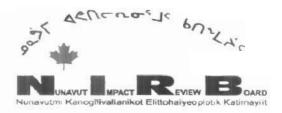
x Exploration (geophysical ground, geophysical air, drilling) Advanced Exploration/ Bulk Sampling Mine development Site remediation/ reclamation Research Dew Line Clean up / Site Investigation Other:  2. Indicate the activities related to the project proposal: Drilling other than geoscientific Offshore structure Airport/ landing strip X Winter road Access road X Fuel storage X Fuel storage X Solid waste disposal Hazardous waste disposal Hazardous waste disposal Research Abandonment and Restoration Burning X Construction Construction Construction Construction Construction Darn/ Impoundment (construction/ abandonment// removal/ modification) Drainage Alteration Chemical Storage Explosives Storage Explosives Storage Geoscientific sampling by diamond drilling River/ stream/ lake crossing/ bridge Soil testing Tunneling  3. Personnel Total No. of personnel Total No. of personnel Other (please specify):  All season road Auls eason road All season road All season road Access road Read modification Cabins Sewage or grey water disposal Blasting Harvesting Burying Channeling Removal of vegetation Ditch construction Ditch construction Ditch construction Excavation Excavation Excavation Excavation Excavation Soil disposal/ Soil storage Geoscientific sampling by soil sampling River/ stream/ lake crossing/ bridge Soil testing Tunneling  3. Personnel Total No. of person days Soil valve (Please specify):	1.	Indicate the type of project proposal:		
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4. Timing	M I 00 000 F	***		
Period of operation: Proposed term of permit:	March 09 2005 April 1 2005	to to	June 30, 2005 April 1 2007	
Proposed term of permit.	April 1 2003	10	April 1 2007	
Please outline the phases of and scheduling of each phas Earliest Restoration and with	e. Sampling: 2002 / Can	p Construction	: 2004 / Drilling: 2	2003, 2004, 2005 /
5. Region (check all that apply)  Baffin X Ki	: valliq Kitikm	eot	Transboundary	r:
6. Land Status (check all that x Crown Commission	apply):			d Sub-Surface Lands
7. Co-ordinates: Min Lat (degree/minute)	66.5	Min Long (de	egree/minute)	86.0
Max Lat (degree/minute)	67.3	Max Long (d		87.3
NTS Map Sheet No: 46L 8 Please ensure that maps of t  If the project proposal include Min Lat (degree/minute) Max Lat (degree/minute)	he project are attached (1:		s of the camp loca	ation 66 <sup>0</sup> 38' 57"
If different from above for the NTS Map Sheet No: 46L Please ensure that maps of t		0,000, 1:250, 0	00) (Mandatory)	
<ul> <li>Method of transporta</li> <li>Any structures that v</li> <li>Alternatives consider</li> </ul>	al description of the project he Kitikmeot). The project de , their necessity and durati- tion; vill be erected (permanent/ten	scription should on; nporary);	d outline the follow	ving:
A program is being planned for permitted. Work will likely include		ame classes of	activity as those a	lready or previously

· Land-based reverse circulation drilling (tentative)

Diamond drilling (1 LF70 rig)



- Helicopter-supported sampling
- Ground geophysics
- · Construction of an airstrip on lake ice to support airlift resupply.
- Some modest caching of drummed fuel to augment that already on site. (about 200 Jet B)

#### Equipment Needed

- Camp (already in place) with about 40 people
- 1 Astar BA helicopter
- 212 helicopter (if RC drilling proceeds)
- 2 snowmobiles
- 1 IT28 loader (aircraft unloading)
- 1 Kassbohrer snowcat (snow clearing and icerstrip construction)
- 1 freight sleigh

Note: In addition to the above equipment, the following is also on site although its use is unlikely:

- 1 D6 Cat
- 1 Foremost tundra vehicle

At this time there is no budget approved for work beyond June 30<sup>th</sup> although successful drilling would likely encourage a shift to RC drilling until the end of September 2005. Lack of success would lead to demobilization of equipment to Repulse Bay in preparation for removal by barge this fall. The camp would probably be dismantled over the summer and flown to Repulse Bay.



#### **SECTION 4: MATERIAL USE**

1. List equipment (including drills, pumps, aircrafts, etc.):

Equipment type and number	Size – dimensions	Proposed use
See above		

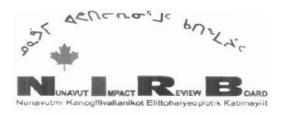
2. Detail fuel and hazardous material use:

Fuels	Number of Containers	Capacity of containers (gal & litre)
Diesel	199	205 L
Gasoline	20	205 L
Aviation fuel	425	205 L
Propane	18	40 lb
Other		
Acetylene	14	
Oxygen	13	
Hazardous material (please specify)		
•		
•		
•		

#### SECTION 5: WASTE DISPOSAL AND TREATMENT FACILITIES

1. List the types of waste:

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage	~ 6000 liltres	RBC plant	UV sterilisation
Greywater		RBC plant	UV sterilisation
Garbage	lots	incinerator	Fly out ash drums to MB
Overburden (organic soil, waste material, tailings)			
Hazardous waste			
Other: Metal waste	lots	Fly out to Churchill	

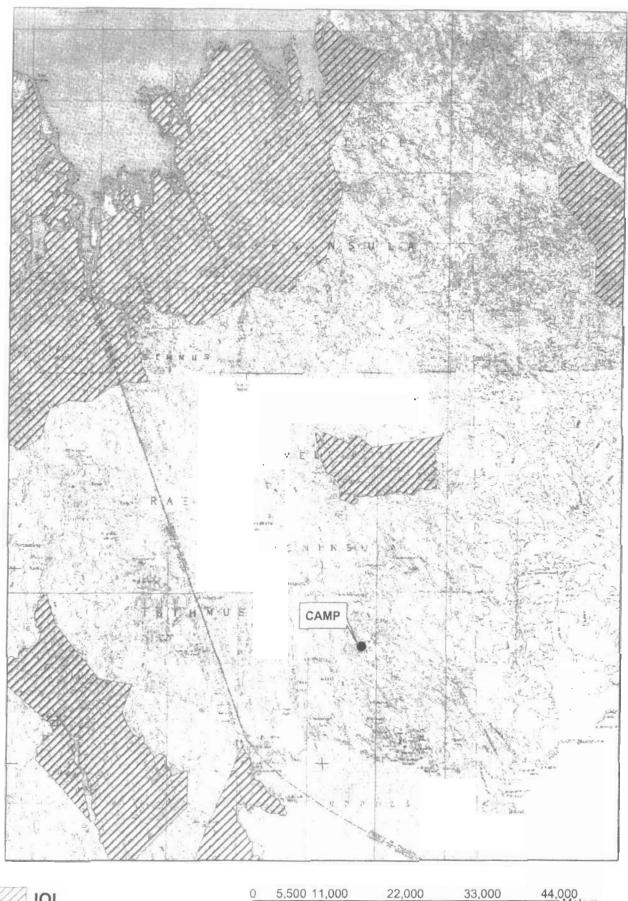


#### SECTION 6: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

1. List the community representatives that have been contacted and provide the minutes of the meetings:

Community	Name	Organization	Date Contacted	Telephone No.	Fax No.
See attachments					
Qilalugaq Project - Jan 2004_trip report.					
Meeting Minutes with HTO June 23, 2004.d					

Applicant:			
Signature	Title	Date	

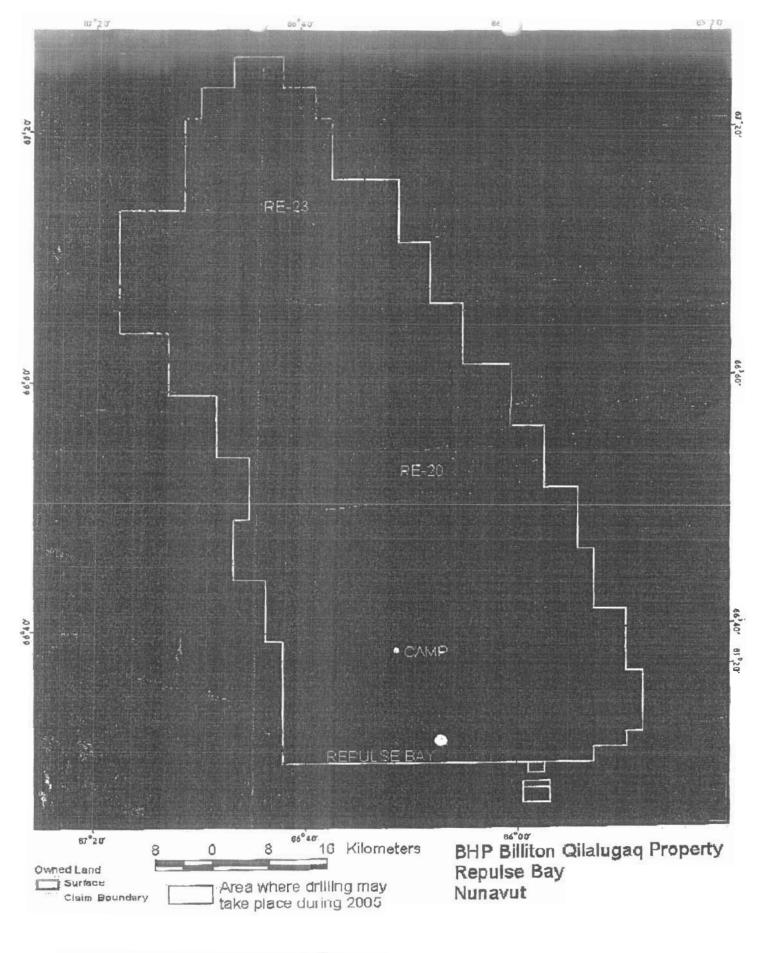


//// IOL

5,500 11,000

22,000

44,000 Meters





# Working Responsibly at BHP Billiton: Our Health, Safety, Environment and Community Policy.

At BHP Billiton, we are committed to sustainable development. Health, safety, environment and community responsibilities are integral to the way we do busing the committed continual improvement in our performance, efficient use of natural resources and aspire to zero harm to people and the environment.

Wherever we operate we will:

Develop, implement and maintain management systems for health, safety, environment and the community that are consistent with internationally recognised standards and enable us to: identify, assess and manage risks to employees, contractors, the environment and communitie Strive to achieve leading industry practice;

Meet and, where appropriate, exceed applicable legal requirements:

Set and achieve targets that include reducing and preventing pollution;

Develop our people and provide resources to meet our targets;

support the fundamental human rights of employees, contractors and the communities in which we operate;

Respect the traditional rights of indigenous people;

Care for the environment and value cultural heritage; and

Advise on the responsible use of our products.

Seek opportunities to share our success by:

Working with communities to contribute to social infrastructure needs through the development and use of appropriate skills and technologies; and

Developing partnerships that focus on creating sustainable value for everyone. Communicate with, and engage, employees, contractors, business partners, suppliers, customers, visitors and communities to:

Build relationships based on honesty, openness, mutual trust and involvement; and Share responsibility for meeting the requirements of this policy.

We will review regularly and report publicly our progress and ensure this policy remains relevant to the needs of our stakeholders. We will be successful when we achieve our targets toward our goal of zero harm and are valued by the communities in which we work.

Paul AndersonChief Executive Officer and Managing Director

General Project Description

Timing

Spill Response Equipment and Location

#### **Training Programmes**

Procedures outlined in this document were reviewed with the crew by the project geologist while on site.

#### Attachments

- Maps (area map, drill sites, campsite & layout, caches)
- MSDS Sheets
- Spill Report Form

#### **ACTION PLAN**

- Report All Spills Immediately
  - APPENDIX B contains Internal and External Phone Numbers and Contact Information
- Clean-Up Spill

If safe:

- · Stop the source of the spill;
- Prevent the spill from entering a watercourse; and



· Clean-up the spill.

- 3. Notify Government Agencies (Appendix B)
- 4. Fill out the Spill Report Form (Appendix H)

If on site coordinator is not available, contact the GNWT 24-hour spills report hotline immediately at: (867) 920-8130.

#### Respond Immediately if Safe to Do So:

- Identify the spilled material.
- 2. Ensure the safety of yourself and others.
- Shut off ignition sources NO SMOKING.
- Attend to injured.
- Assess the severity of the spill.
- 6. Call for assistance.
- On-Scene Co-ordinator mobilizes Emergency Response Team
- Keep unnecessary people out of the area.
- Wear impervious clothing, goggles, gloves.
- 10. Approach spill from upwind IF SAFE TO DO SO.
- 11. Stop product flow if possible.
- 12. Contain and recover spill as soon as possible.

#### Respond Safely

- Do not contain gasoline/aviation fuel if vapours might ignite.
- Allow gasoline or aviation fuel spills to evaporate.
- See the Spill Response Actions on the following pages and Appendix C - Product Guides for further information.

#### Obtain and report Spill Details

- Fill in Spill Report Form (Appendix H)
- All spills must be reported to the GNWT 24-hour Spill Report Hotline: (867) 920-8130.

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# Spill and General Contingency Plan

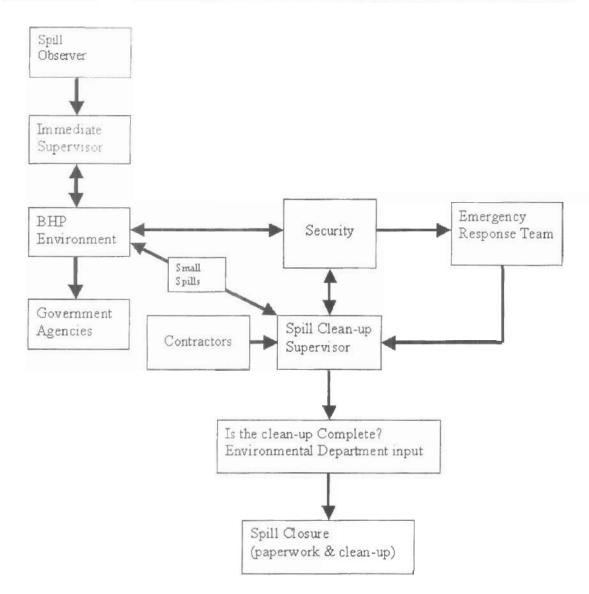


Figure 1. Spill Response Procedure

#### Spill Response Actions Diesel, Hydraulic, Lube and Waste Oil

Consider action only if safety permits!

Eliminate ignition sources. Stop source if safe to do so.

On Land Do not flush into ditches or drainage systems.

Block entry into waterways and contain with earth or other barrier(s).

Remove small spills with sorbent pads.

On tundra use peat moss and leave in place to degrade, if practical.

On Snow & Ice

Block entry into waterways and contain with snow or other barrier Block entry into waterways and contain with snow or other barrier

Remove minor spills with sorbent pads and/or snow.

Use ice augers and pump when feasible to recover diesel under ice.

Slots in ice can be cut over slow moving water to contain oil.

Burn using Tiger Torches if unrecoverable by other methods, feasible and

safe to do so.

On Muskeg Do not deploy personnel and equipment on marsh or vegetation.

Remove pooled oil with sorbent pads and/or skimmer.

Flush with low pressure water to herd oil to collection point. Burn only in localized areas, e.g., trenches, piles or windrows. Do not burn if root systems can be damaged (low water table).

Minimize damage caused by equipment and excavation.

On Water Contain spill as close to release point as possible.

> Use spill containment boom to concentrate slicks for recovery. On small spills, use sorbent pads to pick up contained oil. On larger spills, obtain and use skimmer on contained slicks.

Rivers & Streams

Prevent entry into water, if possible, by building a berm or trench Intercept moving slicks in quiet areas using (sorbent) booms.

Do not use sorbent booms/pads in fast currents and turbulent water.

Storage & Transfer

Store closed labeled containers outside away from flammable items Electrically ground containers and vehicles during transfer to designated disposal/treatment area

Disposal Segregate waste types

Place contaminated materials into marked containers.

Consult BHPB HSEC Coordinator on any post spill requirements.





# Spill Response Actions Gasoline and Jet B Aviation Fuel

Consider action only if safety permits!

Gasoline and Jet B form vapours that can ignite and explode! No smoking!

> Eliminate Ignition sources. Stop source if safe to do so.

On Land Block entry into waterways by diking with earth or other barrier.

Do not contain spill if there is any chance of igniting vapours.

On shop floors and in work/depot yards, apply particulate sorbents. On tundra use peat moss and leave to degrade if feasible to do so.

On Snow & Ice Block entry into waterways by diking with snow or other barrier(s).

Do not contain spill if there is any chance of igniting vapours.

In work/depot yards, apply particulate sorbents.

On Muskeg Remove pooled gasoline or Jet B with pumps, if safe to do so.

Do not deploy personnel and equipment on marsh or vegetation.

Low pressure flushing can be tried to disperse small spills.

Burn carefully only in localized areas, e.g., trenches, piles or windrows.

Do not burn if root systems can be damaged (low water table).

Minimize damage caused by equipment and excavation.

On Water Do not attempt to contain or remove spills.

Use booms to protect water intakes and sensitive areas.

Storage S & Transfer in

Store closed labeled containers in cool ventilated areas away from

incompatible materials

Electrically ground containers and vehicles during transfer to designated

disposal/treatment area.

Disposal Segregate waste types, if necessary.

Place contaminated materials into marked containers.

Consult BHPB HSEC Coordinator on any post spill requirements.



# Spill Response Actions Acetylene and Propane

Consider action only if safety permits!

Gases stored in cylinders can explode when ignited!

Keep vehicles away from accident area.

Refer to Product Guide in Contingency Plan for:

Physical/Chemical Properties Response to Fires First Aid

- Vapours cannot be contained when released.
- Water spray can be used to knock down vapours if there is NO chance of ignition.
- Small fires can be extinguished with dry chemical or CO<sub>2</sub>.
- Personnel should withdraw immediately from area unless a small leak is stopped immediately after it has been detected.
- If tanks are damaged, gas should be allowed to disperse and no attempt at recovery should be made.
- Personnel should avoid touching release point on containers since frost quickly forms.
- Keep away from tank ends.



#### Spill Response Actions Raw Sewage

Consider action only if safety permits!

On Land Block entry into waterways.

> Do not flush into ditches or drainage systems. Contain spill by diking with earth or other barrier. Remove spills with pumps or vacuum equipment.

On tundra, use peat moss and leave in place to degrade, if feasible

On Snow Block entry into waterways.

& Ice Do not flush into ditches or drainage systems.

Contain spill by diking with snow or other barrier.

Remove contaminated snow with shovels or mechanical equipment.

On Muskeg Do not deploy personnel and equipment on marsh or vegetation.

Remove pooled sewage with pumps or vacuum equipment. Leave in place if more damage will result from cleanup. Minimize damage caused by equipment and personnel.

On Water Sewage sinks and mixes with water.

Isolate/confine spill by damming or diversion.

If not possible to confine and pump, disperse using water flushing.

Storage Store closed labeled containers in cool, ventilated areas.

& Transfer Avoid contact with collected material.

Consider using as a fertilizer in designated areas. Disposal

Place into marked containers.

Transport to the designated sewage treatment plant.

Consult BHPB HSEC Coordinator on any post spill requirements.



#### 5.0 RESPONSIBILITY

#### All Employees (First Observer)

- Assess the initial severity of the spill and safety concerns.
- Identify the source of the spill.
- Report all spills to Work Supervisor as soon as possible.
- Determine the size of the spill and stop or contain it, if possible.
- Participate in spill response as member of cleanup crew.

#### Work Supervisors

- Contact the BHP Billiton Project Geologist and/or Site Manager.
- Gather facts of the spill.
- Start to prepare a spill report form (Appendix H).
- Assist as required in spill response measures.

#### Spill Clean-Up Crew

- Conduct cleanup of spills under direction of Project Geologist/Site Manager
- Deploy booms, sorbents and other equipment and materials as required.
- Take appropriate response measures.
- Continue cleanup as directed by Project Geologist/Site Manager or until relieved.

#### Project Geologist/Site Manager

- Assist in initial and ongoing response efforts.
- Supervise emergency spill clean-up crew.
- With work crew, take initial action to seal off the source and contain spill.
- Records the time of the report, source of information and details on location, size, type
  of spill and any other information available on the spill report form.
- Oversees the cleanup operation until it is satisfactorily completed.
- Determine need for equipment and personnel to contain and clean-up spill.
- Ensure co-ordination of equipment and manpower as needed (BHP and contractors).
- Continue actions until relieved or supplemented by other Emergency Supervisor.
- For spills into water, ensure that booms, sorbents, and other material as required are placed in watercourses to contain spill.
- Decide with On-Scene Co-ordinator if mobilization of additional equipment from Spill Response Organization or Contractor is warranted.
- Assess whether burning is a viable clean up measure. Consult with HSEC Coordinator.



#### Project Geologist

- Ensure expeditious response and clean up of spill site and impacted areas.
- Complete the Spill Report Form (Appendix H) and submit to the NAE HSEC Coordinator.
- Report the Spill to the GNWT 24-Hour Spill Report Line at (867) 920-8130.

#### NAE - HSEC Coordinator

- Follow up to ensure that the spill was reported to the GNWT 24-Hour Spill Report Line at (867) 920-8130.
- · Together with the Project Geologist/Site Manager, decides if additional equipment is required to contain and clean up spills.
- Notifies NAE Operations Manager and Global Operations Leader.
- Oversees completion and distribution of Spill Report.
- Ensures investigation identifies measures to prevent similar spills.

#### Vice-President Exploration

- Is responsible for all communication with the media. Ensures that all press releases are accurate and in accordance with company policy.
- Makes financial decisions on major expenses during large spill response.
- Initiates Mutual Aid Agreements if so required.

#### Global HSEC Coordinator

- Provides cleanup advice to the On-Scene Co-ordinator and Spill Cleanup Supervisor.
- Assists the President in the preparation of press releases.
- Develops safe and effective spill management and prevention practices.
- Provides advice to the Spill Cleanup Team Leader of storage and disposal options.
- Updates and distributes Contingency Plan.
- · Ensures that the Environmental Department reports spills to the 24hr Spill Line and obtains confirmation of receipt of spill report.
- · Ensures that there is follow up reports prepared on the spill event, clean up and environmental impacts.
- · Ensures that Post-Spill reports are completed and takes action, as necessary, to prevent a recurrence.
- Ensures Emergency Response Team is adequately trained in spill response.
- Organizes spill response training and exercises.
- Liase with government agencies (as required).

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# Spill and General Contingency Plan

#### Legal Counsel

- Advises the President and the Environmental Manager as requested related to:
- Legislative authority of various government agencies.
- Questions of due diligence.
- · Costs/fines and liabilities, including penalties associated with regulations.
- Consults with the corporate insurance co-ordinator and advises the President on matters related to insurance.

#### BHP Board of Directors

 Establishes corporate environmental policy based on the recommendations of the Environmental Management Committee.





#### **External Contacts**

#### CONTACT THE FOLLOWING NUMBER IMMEDIATELY:

NWT/NU 24-HOUR SPILL REPORT LINE 1 (867) 920-8130 FAX (867)-873-6924

OTHER CONTACTS	PHONE
NUNAVUT	
Kivalliq Inuit Association	867 645-2800
Nunavut Water Board	867 360-6338
Nunavut Impact Review Board	867 983-2594
Nunavut Tungavik Inc.	613 238-1096
Indian and Northern Affairs Canada, Igaluit	867 975-4500
Repulse Bay Hamlet	867 462-9952
GNWT	
Harvey Gaukel, Hazardous Materials Specialist Environmental Protection Service, GNWT, RWED	(867) 873-7654
Sylvester Wong, Director Prevention Services, WCB	(867) 669-4408
Larry Adamson, Regional Superintendent, RWED	(867) 920-6134
Bruce Stebbing, Office of the Fire Marshall, GNWT, MACA	(867) 873-7030
FEDERAL GOVERNMENT	
RCMP, Repulse Bay	(867) 645-2822
Darren Unrau, Resource Management Officer (DIAND)	(867) 669-2763
David Milburn, Regional Manager, Water Resources Division (DIAND)	
Craig Broome, Environmental Protection Branch, Environment Canada	(867) 669-4730
Ron Allen, Manager, Fisheries and Oceans Canada	(867) 669-4902
LOCAL AIR CHARTER	
Calm Air, Churchill	(204) 675-8843
First Air	(867) 979-8302

HSEC

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OTHER CONTACTS	PHONE
SORBE	NTS
Western/Westlund Frontier Mining	(867) 920-7617
Acklands-Grainger Inc.	(867) 873-4100







### **Internal Contacts**

NAME	PHONE	FAX
Kimberly Scully	604 632-1464	604-683-4125
Project Geologist	home 604 476-1755	
Sig Weidner	(604) 632- 1459 Cell (604) 716-3355 Home 604 944- 2507	604-683-4125
Doug Sween	604 694-1523 Cell 604 781-0724	
Ed Routledge	604 694-1522 Home 604 904- 2456	
Eric Tweedie	604 694-1514 cell 778 882-9950	
Tom Whiting	011 61 3 9609 3283 cell 011 61 0419 643 881	
	Kimberly Scully Project Geologist Sig Weidner  Doug Sween Ed Routledge  Eric Tweedie	Kimberly Scully       604 632-1464         Project Geologist       home 604 476-1755         Sig Weidner       (604) 632- 1459         Cell (604) 716-3355       Home 604 944-2507         Doug Sween       604 694-1523         Cell 604 781-0724       Ed Routledge         Ed Routledge       604 694-1522         Home 604 904-2456       Eric Tweedie         Eric Tweedie       604 694-1514         cell 778 882-9950         Tom Whiting       011 61 3 9609 3283         cell 011 61 0419

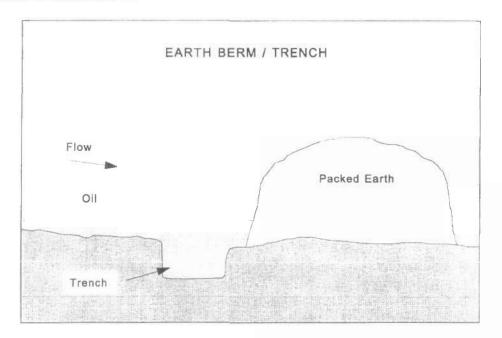
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# Spill and General Contingency Plan

#### Earth Berm/Trench

If possible, locate the berm/trench sufficiently downslope of the release point to complete its construction before the spill arrives. Dig the trench along a natural drainage contour. It should be approximately 0.5 m deep with a relatively flat bottom. The excavated material can then be combined with other available material to build a berm.

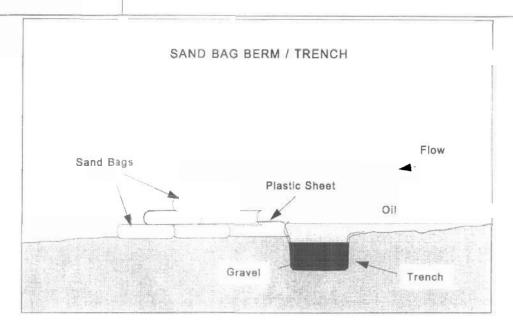


#### Sand Bag Berm/Trench

Sand bags can be used where available and if the earth is too hard or frozen and cannot be excavated or compacted. A plastic liner can be used to seal the trench and bags and should be anchored with gravel or rocks and be woven between layers of bags.

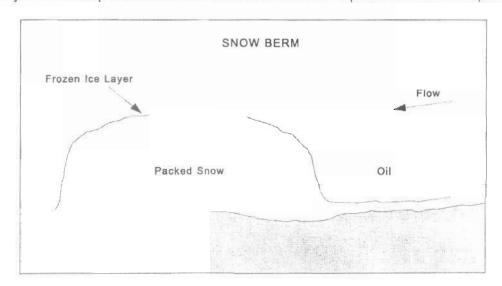
HSEC

# Spill and General Contingency Plan



#### Snow Berm

In winter conditions, snow may provide a quick and efficient berm construction material. The snow should be well packed and water can be sprayed to form an ice layer on the top and sides of the berm to make it impermeable to the spill.



The type and size of the containment method chosen will depend on the following factors:

#### Size of Spill





Berms surrounding large spills that cover extensive areas are difficult and timeconsuming to build. For this reason, earth or snow berms may be more easily put into place than sandbags. It is also important to build the berm as close to the source as possible to minimize spreading.

#### Terrain

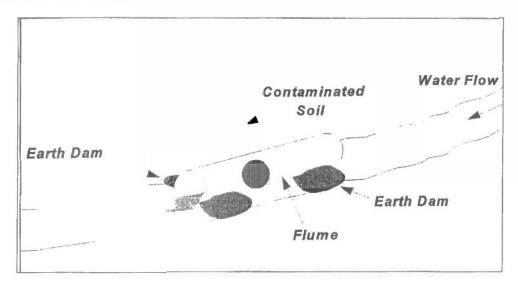
Steep terrain can increase work difficulty, particularly with heavy equipment, while large flat areas will require longer barriers to contain a spill. Spills will also travel much faster on steep inclines but move more slowly and tend to pool on flat ground, allowing more time for the construction of barriers.

#### Soil Type

Some oils and chemicals will soak into loose, coarse, or dry soils while packed or frozen soil can create a natural barrier. The void space in tundra quickly takes up spills. Frozen soil will also require relatively heavy machinery in order to build a trench or berm. Soft, wet soil can also impede vehicle and machinery access.

#### Proximity to Water

It is important that every precaution be taken to ensure that spills do not enter a waterway. If there is any possibility of contamination, a stream or river should be protected with a berm or flume as shown below.



#### Weather

Weather can play an important role in spill response operations, particularly if the ground is frozen or if rainfall is heavy or prolonged. Since oil floats on water, any pooled water that collects in a trench or against a berm will effectively increase the volume of liquid needed to be contained. Water can also significantly increase the tendency of oil to spread thus posing a substantial hindrance to



effective cleanup. Soluble chemicals are difficult to remove and should be assessed for their impacts on an individual basis.

#### Location

The location of a spill determines the most feasible type of containment. Accessibility of both equipment and manpower could be hindered by difficult terrain or dense vegetation. Areas might be required where a helicopter might land as well as one or more designated locations where equipment could be staged for later deployment at strategic locations.

#### Darkness

Spills during winter in remote locations can be difficult to clean up if they spread or migrate beyond the release point and there is insufficient light to mount a cleanup operation. During summer months, extended days can facilitate response in the North.

#### Temperature

Air temperatures of the Arctic demand attention by response personnel during both high and low extremes. Heat stress must be avoided by the proper intake of fluids during the summer while temperatures below -20° C necessitate the protection of skin from freezing

#### SPILLS ON MUSKEG

Muskeg is generally poorly drained, wet and spongy. Internal drainage is usually slow and the depth of peat over mineral soil varies greatly. Muskeg is also highly acidic and low in nutrients, making natural biodegradation very slow, even during the summer months.

It is recommended that small oil spills in muskeg be mixed with peat moss and allowed to degrade during summer months since more damage can be done by attempting cleanup using mechanical removal methods.

It is possible that, due either to safety or the condition of ground (too soft), that cleanup should be delayed until conditions improve. In either case, all parties involved should be consulted in order to determine when and how cleanup should be undertaken. Site monitoring will also be required during the interim phase in order to ensure that the spill does not spread to any sensitive areas around the contaminated site

#### Small Spills

In the event of a small spill, it is important to weigh the advantages of cleanup versus the potential negative impacts on the terrain. Considerable damage can be caused by both personnel and equipment to wet or sensitive areas. In many



cases, the best solution may be to add nutrients to the contaminated area and monitor the site to ensure that the spill does not migrate to an adjacent sensitive area. In all cases, BHP's environmental advisor and Regulatory Authorities should be consulted.

#### Large Spills

Spills involving large quantities of oil or chemicals into muskeg pose a serious threat and should be approached with caution. Possible containment and recovery methods for winter and summer spills, including the different possible scenarios, are discussed for:

- large spills on bogs
- large spills on fens
- large spills on marshes



#### F2 Spills On Water

Containing spills on water is often difficult because oil quickly spreads. In turbulent water, oil and chemicals are likely to mix into the water column, making recovery impractical. For these reasons, it is important that if a spill reaches water, that containment be attempted as close to the source as possible, and that the spill be prevented from reaching a flowing stream. Spills in lakes should be contained, if possible, before reaching outlets where containment and recovery can be both difficult and dangerous. Efforts to contain spills in large streams should be limited to land-based operations where the oil might pool in accessible back eddies. The recovery of water soluble chemicals is not possible.

In flowing streams, oil travels at the same speed as the surface current. On larger rivers or in open lake areas, slicks are also transported at 3.5% of the wind speed. Although a comparatively small effect, it can be an important factor if the wind is at right angles to the water flow and if the water surface involved is extensive. The wind can force the spill to the sides of the river where flows are slower or to the shore of a lake. Long reaches of the river may become contaminated although containment and recovery might also be possible.

In smaller streams, the wind will have less impact and the slick speed can be easily estimated by placing a small stick in the middle of the stream and determining the length of time required for it to travel a given distance, typically 10 m. This information can be quickly converted to speed (36 / time (sec) = x km/h) to determine the estimated travel time to a confluence or other sensitive area.

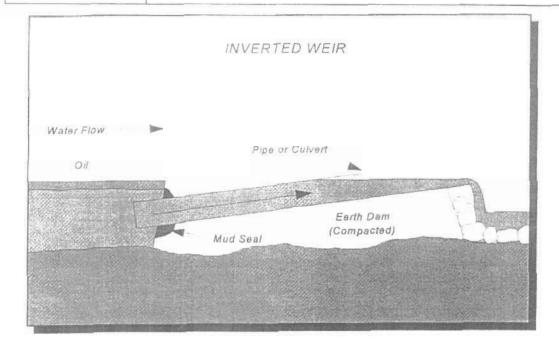
#### Containment Strategies

Determining the best possible strategy for containment will depend on a number of factors:

- speed of slick travel
- location of possible containment sites
- availability of personnel and equipment
- location of sensitive areas
- safety of operations

Spills on water can be contained by using floating booms (sorbent or nonsorbent) or by constructing a temporary berm and inverted weir. The objective is to build a barrier against which the (normally floating) oil will pool while allowing the underflow of water.





#### IMPORTANT Whenever the construction of a berm or flume is considered as part of a spill response operation, the impacts of the disturbance must be weighed against the potential impacts of the uncontained spill. Care must be taken to minimize any adverse effects. The Federal Department of Fisheries and Oceans should be consulted if fish spawning streams are involved. (Phone (867) 669-4902)

Barriers can be constructed from earth or rocks although if large rocks are used, plastic sheets or packed mud should be used to ensure that a complete seal is made. Choosing and positioning the pipe is critical to effective operation of the weir. The pipe should be low enough at the inlet end to ensure that an increase of the slick thickness or substantial lowering of the water will not result in a loss of oil through the pipe. Larger pipes which allow greater volume (and slower) flows will minimize the tendency of the oil to become entrained in the water at the inlet side. The outlet end of the pipe should be positioned to create a continuous, smooth flow. Underflow of oil (under the pipe) should also be prevented by ensuring that the pipe inlet is not located on loose gravel.

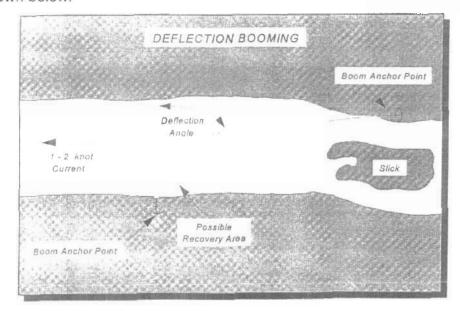
#### Booms

Booming with either sorbent or non-sorbent booms can also be an effective means of containing spills on slow-moving waters and in lakes. Effective containment using conventional booming techniques will be very difficult in

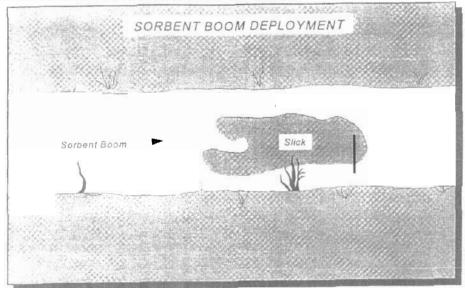




streams or rivers where currents exceed 0.7 knots (0.4 m/s). At these speeds, oil will become entrained in the water flowing under the boom resulting in significant losses. Some improvement can be achieved in waters flowing at 1- 2 knots (0.5 - 1 m/s) if the boom is deployed at an angle of less than 90 ° to the direction of flow as shown below:



Sordent booms or socks can also be used to provide a barrier to floating oil. These types of booms should be checked regularly to ensure that they do not become saturated with either water or oil since they will tend to float very low in the water or even sink and release oil downstream.





## F3 Spills In Ice And Snow

Oil can remain relatively fresh, i.e., in an unweathered state, under snow and ice for several months or more after a spill. Evaporation rates will still be high when the oil is ultimately exposed to atmosphere except in very low temperatures approaching its flash point. Oil can also move up and down small hills (several metres high) due to the capillary action of the snow.

### Containment

Snow and ice can be used to create berms to keep spills from spreading. In frozen rivers, angled slots about 1 m wide or holes can be cut in the ice, where safety permits, to allow possible spill recovery. The oil will rise up into the openings where it will concentrate, and be available for recovery using skimmers or pumps.

## Disposal

Oil spills in snow and ice can sometimes be burned if the spill can be isolated from the source. Although there is generally a reduced fire hazard, due attention to safety of operations is still required. If burning is not effective, recovered contaminated material will need to be collected and transported to a designated disposal/treatment facility

(Reference BHP Waste Management Plan).

## RECOVERY

When large volumes of oil have been contained either through natural or mechanical containment, it will be necessary to remove or recover the accumulated oil. This will generally occur in excavated trenches or adjacent to berms or natural barriers and occasionally in slow running streams or quiet ponds.

Vacuum trucks are ideal at cleanup sites accessible by road and where a large volume of oil has pooled that is generally free of water. The truck must be positioned at a safe distance so that there is no possibility of fire or explosion.

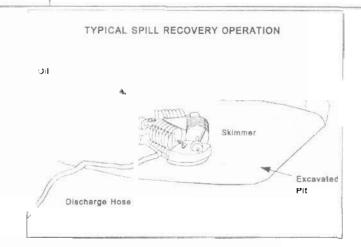
Oleophilic devices, such as disc or drum skimmers, can selectively recover oil in water, and are better suited to applications where the oil has formed a distinct layer on top of quiet water. Accumulations adjacent to an inverted weir are an example. A vacuum truck would be largely ineffective in this instance since it would recover large amounts of water, particularly in a thin layer of oil with water flowing through the pipe or culvert.

An example of a disc skimmer application in an excavated pit is shown in this appendix.



HSEC

# Spill and General Contingency Plan



When using disc or drum skimmers, ensure that small items of debris are periodically removed from scrapers to ensure their efficient operation.

### TRANSFER

Pumps can be used to transfer oil recovered by a skimmer to temporary and/or final storage facilities. Pumps can also be used for low-pressure flushing of contaminated areas, although this spill response technique should only be carried out under the guidance of an environmental advisor. BHP personnel should be familiar with the operation and maintenance of available transfer equipment:

- Centrifugal ("trash") pumps are capable of moving oil but will emulsify oil and water, resulting in the generation of larger volumes of liquid waste.
- Peristaltic, diaphragm and other positive displacement type pumps tend to reduce oil/water emulsification.
- Ensure that pumps and drives selected for transferring Jet-B, gasoline or other flammable products are explosion proof.

Solid wastes, such as contaminated sediment, used sorbent, spent boom and other debris, will require the use of rakes and shovels for initial pickup and then lined containers, pickup trucks, etc. for their transfer to disposal sites. Care should be taken during such operations to prevent the contamination of soil and water at transfer points.

### F4 Cleaning Stream Banks, Shoreline & Muskeg

Site restoration, stream banks and general "shoreline" cleanup of lakes are the final spill response steps. Due to seasonal variations and various types of stream banks and muskeg, a standard restoration program cannot be prescribed.



Consultation with environmental advisors is critical to ensuring cleanup efforts do not create adverse impacts. General cleanup rules include:

- Minimize the impact to shoreline or muskeg, particularly vegetated areas, during all phases of spill response. Cleanup can cause more damage to such habitat than an untreated spill, especially where permafrost and vegetation are involved
- Assess area requiring cleanup in terms of three factors:
- · environmental sensitivity
- · property, archaeological or other damage
- · natural cleansing action at the site

Oil typically does not adhere to the banks of fast moving rivers. Little or no cleanup action can usually be taken. On the other hand, muskeg can undergo long-term contamination and reduced environmental productivity that cleanup may or may not help to alleviate because of other damage inflicted. Whatever method is chosen to deal with an area affected by a spill, minimizing damage to root systems is vital.

- 3. **Obtain** approval and instruction prior to conducting cleanup operations.
- Be particularly careful if oil has entered marshy areas and wetlands.

Personnel and equipment should NOT be deployed into such areas without explicit approval from environmental authorities. Damage to both upland and water areas may result.

5. Approach vegetated areas and other sensitive zones from the water side, if possible and if cleanup is to be attempted. Be aware that various plant species, birds, fish and animals can all be adversely affected by cleanup operations. In the Arctic, breeding and blooming periods during the summer months are particularly critical.

### BURNING

The *in-situ* burning of spilled oil may be useful option, particularly in the North, where terrain and/or safety concerns may make conventional cleanup methods impractical. It is important that the decision to burn be made as soon as possible after the spill because as the more volatile light ends evaporate, burning becomes more difficult. For this reason, it is recommended that BHP obtain prior approval from the necessary regulatory agencies.

Date April 2002

Spill Response Han BHPBilliton Exploration

# Spill and General Contingency Plan



## Application

The best results will be achieved when burning fresh (less than 24 hours old) spills in winter or in muskeg with a high water table. Burning can also be effective in containment trenches or ponds where significant oil thicknesses can collect. Special care should be taken in winter conditions as the heat from the burn will melt adjacent snow, increasing the potential for penetration of the oil, and potentially transporting the oil to the surrounding area.

Care must also be exercised during the summer. Natural occurring bog and other plants on the Arctic tundra can burn creating more damage than the original spill. Material for burning should be isolated from the surrounding terrain (in windrows or containers) prior to burning if there is ANY chance of adjacent areas being inadvertently set on fire.

### Limitations

The burning of heavy or weathered oil is very difficult or impossible. Severe weather conditions such as high winds, snow and rain may also make burning impossible. Areas with vegetation cover which have not been severely damaged by the oil should not be burned as more damage will result than if the oil is left to degrade naturally. Care should also be taken in muskeg with a relatively low water table as burning may destroy sensitive root systems.





## Preventive Measures

## Drum Cache Storage

- Choose ground that is sandy or gravely and which is either level or represents a naturally containing depression.
- Wherever practicable, drums should be stored within a containing berm made from snow, gravel, or rocks and lined with fuel-impervious material. The volume of the berm must be equal to or greater than110% the volume of the largest container.
- Preferably arrange in single tier rows although two tier stacking is permissible in confined sites.
- All bungs must be visible to inspect for leakage. Parallel rows must have walkways between them.
- Place drums so bungs are in the 9:00/3:00 o'clock position. If this cannot be
  done, it is preferable to have the larger bung topmost as it is more apt to be
  the source of a leak.
- Badly dented or questionable drums should be used first. In the case of fuels other than turbo, the contents should be pumped into competent containers for future use. Turbo fuel from leaking drums that cannot be immediately used must be pumped into competent drums and disposed of.
- Empty drums should never be stored with the bungs down.
- At least 1 205 litre comprehensive hydrocarbon spill kit per 300 drums should be supplied at every fuel cache. Additional hydrocarbon absorption pads must be available to resupply all sites.

## Inspections

- Drum caches should be inspected every 2 days for indications of leakage.
- Drums connected to heaters or machine driven equipment should be inspected daily.

### Fuel Transfer

- Motorised fuel pumps must be never be left running unattended during a transfer procedure.
- Fuel control values and shut-off controls must be tested before refuelling to ensure proper function.
- Hydrocarbon spill kits must be immediately available during any refuelling procedure.



Date & Time of Spill		Reported Date & Time	
Date a Time of opin		Reported Date & Time	
Responsible Departme Operations Diamonds NPGM Copper Base Metals PROJECT	nt	Hydraulic Oil Lube Oil	Liters
Location of Spill: (Spec	ific Location)	Contractor if responsible	e: (name, address, phone)
Cause of Spill			
Human Error:		Equipment Failure:	
Overfill Use of improper equipm Improper use of equipm Inadequate training Other	nent	Safety system failure ( Seal broke Hose failure Drum failure (puncture Other	e, rupture)
Describe the events lea	ding up to the spill		
Action taken to clean u	p spill		
Comments or recomme	endations		
Reported by: Posit	ion, Employer		Telephone:
	0 5 5		
Reported to: Posit	ion, Employer		Telephone:

## Non Technical Summary

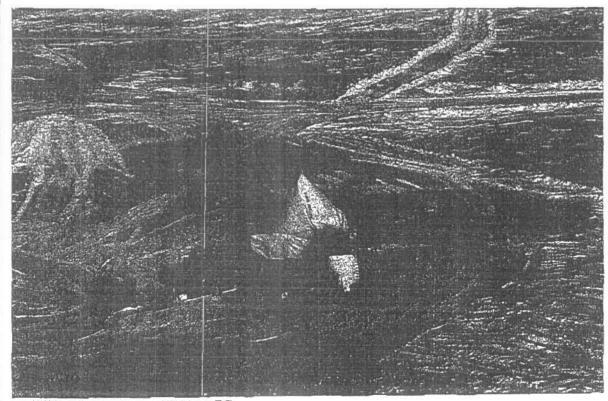
While no drill targets have yet been defined on the subject IOLs, and it's possible that no work will be done on them, BHP Billiton has judged it appropriate to have the necessary permission in place in the event that subsequent exploration data recommends that further work be pursued.

The IOL parcels lie within an extensive mineral claim that overlays much of the Rae Peninsula. The area has been explored in depth for two years by BHP Billiton – almost exclusively on Federal Lands. Last year a new camp was built on federal lands and this would be used to support any work in 2005 as well. Operations continue to be under DIAND permit N2003C006.

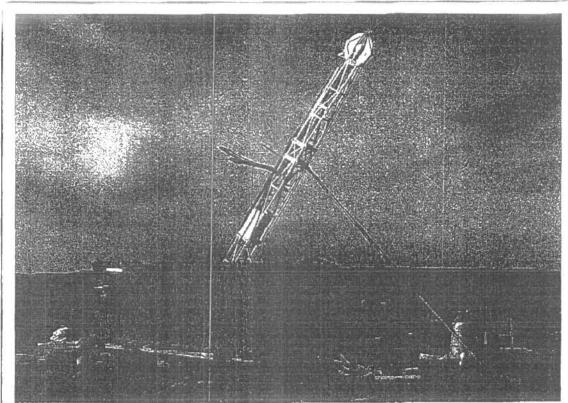
The work could be in the form of ground geophysical surveys, diamond drilling, or reverse circulation (RC) drilling. Any machinery would be positioned solely by helicopter. Small fuel caches of anywhere from 4 to 30 drums (depending on the rig used) would have to be established near any drill setup.

Many local Inuit from Repulse Bay have and will continue to work on the project. The community has thus far been quite supportive of the activities and are regularly advised of and consulted on the evolution of the program.

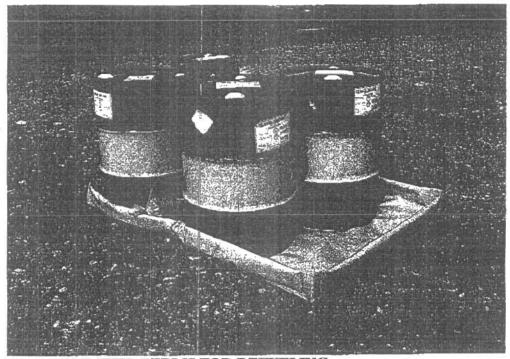
General work on the claims is slated to start in mid March and could continue until the end of September if results warrant. No fuel or equipment will be left on IOL.



REVERSE CIRCULATION RIG



DIAMOND DRILL



PORTABLE FUEL BERMS FOR REFUELING



December 9, 2004

BHP Billiton World Exploration Inc #2300-1111 West Georgia Street Vancouver, BC, V6E 4M3, Canada

Tel (604) 694-1500 Fax (604) 683-4125 Web: www.bhpbilliton.com

D.I.A.N.D.

Land Administration

PO Box 100

Igaluit, NU

**X0A 0H0** 

Re: 2004 Annual Report for Permit #N2003C0006 Qilalugaq Project (formerly Area 8), Repulse Bay Area, Nunavut

#### Overview

The claim group covered by the permit represents most of the Rae Isthmus north of Repulse Bay. Apart from airborne and soil sampling surveys, the work was focused on the southern portion of this region The program involved the same class of activities as those performed in 2003 but was expanded to include other elements.

- · Installation of a camp for up to 54 people
- · Reverse circulation drilling
- · Diamond drilling with two rigs
- Clearing of a Hercules airstrip on lake ice
- Large-scale caching of fuel

Operations began in March with the construction of an airstrip to support supply flights on the lake adjacent the campsite. Work continued until September 21, when the camp was closed for the winter.

Unless otherwise indicated, all equipment remains on site pending continuing work in 2005.

#### Camp

An all-electric camp was constructed on competent esker material between two lakes. Elements included:

12 - 14 x 16 sleep tents

1 - 14 x16 wood frame tent

1 - core logging facility

1 - central complex incorporating kitchen, drys, office and first aid room

1 - 145KVA generator (auxilary)

1 - 200KVA generator (primary)

3 - 8 x 20 steel sea containers

1 - Seprotec sewage treatment plant (RBC type)

Maximum camp population was 47 with the average being about 35.

Septic sewage and grey water were treated by an RBC and the effluent discharged on surface as per our water licence. Discharge BOD, TSS, pH, fecal coliform, and grease and oil were all within NWB approved standards and the performance specs of the plant.

### Equipment on SIte

- 1 D6 Cat
- 1 Foremost 4x4 tundra vehicle
- 1 Bobcat with tracks
- 1 Freight sleigh
- 1 IT28 loader
- 1 Cassbohrer low-pressure track vehicle
- 1 Longyear 38 diamond drill (demobed)
- 1 LF70 diamond drill rig and support equipment
- 1 SDS RC/Coring hybrid drill rig
- 1 204 helicopter (demobed)
- 1 Astar BA Helicopter (demobed)
- 2 MD 500D Helicopters (demobed)

Mobile ground equipment was operated only on frozen ground and mothballed after the thaw.

#### Drilling

Reverse Circulation drilling (8 ¾") was performed in the winter, primarily from setups on lake ice. Cuttings sludge was removed from the sites and deposited in upland sumps (see Impacts and Mitigations). Land-based holes were sealed off with steel plates welded to the casing.

Original positioning of the rig was by 204 helicopter but subsequent short moves were by skidding behind a D6 Cat and then only prior to the thaw. The rig was winterised at the last drill setup in preparation for removal in the spring of 2005.

RC drill co-ordinates are listed below:

LAT		LO	LONG		
degrees	min	sec	degrees	min	sec
66	35	24	86	7	36
66	35	24	86	7	39
66	35	25	86	7	35
66	35	25	86	7	55
66	35	27	86	7	57
66	35	32	86	8	5
66	35	33	86	8	1
66	35	26	86	7	55
66	35	26	86	7	59
66	35	24	86		54
66	35	32	86	8	4
66	35	30	86	8	5
66	35	28	86	8	3
66	35	25	86	7	37
66	35	26	86	7	38
66	35	25	86	7	37
66	35	24	86		38

NQ sized diamond drilling was performed by LF70 and Longyear 38 rigs. These were moved exclusively by helicopter. Cuttings from lake ice setups were captured by a 'poly drill' system and removed to upland sumps. The 38 rig was later demobilised to Churchill while the LF70 was flown to the camp for winter storage.

Diamond drill co-ordinates are listed below:

LAT			LC	LONG		
Degrees	Min	Sec	Degrees	Min	Sec	
66	41	44	86	16	17	
66	41	40	86	16	23	
66	43	33	86	15	9	
66	31	16	86	55	47	
66	35	1	86	4	19	
66	33	49	86	8	17	
66	36	3	86	15	24	
66	36	19	86	8	27	
66	35	39	86	7	51	
66	38	27	86	12	41	
66	39	32	86	14	1	
66	37	14	86	16	42	
66	31	32	86	5	24	
66	33	46	86	5	3	
66	34	44	86	20	39	
66	39	31	86	14	2	

#### **Fuel Caches**

Jet B, diesel, and gasoline drums were cached in lined berms. Mini-berms were used to mitigate spillage during refuelling and at drills, whenever spare drums were held in reserve there. Caching took place over several months, which minimised the collective amount of fuel on site at any given time.

Empty drums will be backhauled on Hercules resupply flights in the winter of 2005.

Fuel on site as of demob. is as follows:

Diesel – 199 Gasoline – 0 Jet B – 227 Empties – 1228

#### Sampling

During the summer, two MD500D helicopters were engaged in systematic till sampling over the Rae Peninsula, within the claim group. Approximately 3200 samples were taken.

#### Airborne Surveys

Two surveys were conducted, one using an Astar helicopter flying at 60 metres above surface and one using a Grand Caravan flying at 80 metres. The survey area covered the central and northern portions of the Rae Peninsula that are within the BHPB claim boundary.

#### Impacts and Mitigations

While the Qilalugaq Project is in its early exploratory phase as BHPBilliton Diamonds Inc. (BHPB) investigates potential reserves near Repulse Bay, NU. Initial baseline monitoring was conducted in the following areas:

- Pre-drilling Winter Water Quality Survey (Rescan March 2004)
- · Post Drilling Winter Water Quality Survey (Rescan May 2004)
- Hydrology studies
- Water Quality studies
- Sediment Quality
- Physical limnology
- · Fish community and fish habitat

### Summary of Unauthorized Discharges

There were eight reportable spills during the 2004-drilling season. Table 7 is a summary of the descriptions of the unauthorized releases, their causes and the remedial measures to control, mitigate or recover the material that was spilled.

BHPBilliton conducted a very detailed investigation into the May 7, 2004 sump failure. Initial delineation of the extent of the fines migration was conducted in early May by Rescan Environmental Services. The findings of this assessment report were discussed verbally with the management staff and work commenced on a remedial action plan. The management staff initiated remedial measures. A detailed spill report was submitted to the Water Resources Inspector for the Department of Indian and Northern Affairs and also shared with Environment Canada and the Nunavut Water Board. Appendix 1 is a copy of the detailed report filed with the government.

Table 7: Unauthorized Releases

Date of	Description	Cause	Remedial Action
Occurrence May 1, 2004	Release of hydraulic fluid to top of ice surface	Drill seal broke while setting casing, spewing water and overfilled a hydraulic oil drip pan, spreading the oil & water solution on the ice.	Drill was shutdown and crew contained the spill using spill clothes and shovelled. The ice was chipped and contaminated material placed into clearly marked empty barrels. Area was scarified with dozer and additional material placed in drums.
May 7, 2004	Release of drill cuttings from sump	Erosion of berm and the undercutting of the permafrost resulted in colloidal material being flushed down slope to an ice covered lake	Additional berms were constructed of PVC, sandbags and Aqua berms to prevent further migration by the melting snow.  Material in the sump was removed and placed in low depressions. Peat was used for rehabilitation.
May 19, 2004	Release of 25 L of diesel fuel	Drum breached when operator was transferring diesel fuel	Absorbent material used to wick fluid. Contaminated snow excavated and placed in drums for offsite disposal
May 23, 2004	Release of 1 L of antifreeze from mobile equipment	During maintenance antifreeze was released to lake ice	Contaminated snow and ice removed and placed in drums for offsite disposal
May 27, 2004	Release of 0.5 L of hydraulic oil	Mechanical failure contaminated snow	Contaminated snow placed in drums for offsite disposal
June 11, 2004	Release of diesel fuel (<3 L) from secondary berm adjacent to Camp	Down slope side of secondary berm failed allowing fuel to escape	Recovery residual material and excavate top layer of contaminated sand & peat layer; placed material in sealed drums and reclaimed area with peat and sand mixture.
June 11, 2004	Release of diesel fuel from secondary berm area at the RC fuel cache	Snow melting allowed the berm walls to move allowing the release of residual fuel	Contaminated hydrocarbons were absorbed and the peat mat excavated and placed in drums. Booms were placed in local area to prevent migration of fuel to lake
July 27, 2004	Release of drill cutting water from recirculation tubs	Drill cuttings and water undercutting the permafrost resulted in colloidal material being flushed down slope	Sandbag berms constructed to control migration. Reclaimed site after drill

#### Community Consultation

The public consultation process involved the community of interest (Hamlet of Repulse Bay). The community of Repulse Bay will be the area of primary focus for potential jobs and business opportunities. Other northern communities like Rankin Inlet, Taloyoak, Pelly Bay have also benefited from this project.

A community informational meeting was held on January 20, 2004 to review and discuss BHPBilliton's planned activities for the 2004 exploration season. Appendix 2 and Appendix 3 in the Nunavut Water Board Report provide summaries of these trip report filed with Nunavut Water Board on outcomes or issued raised during the meeting. During the Q&A session the focus was on hiring, training and traditional hunting areas. A second briefing was provided to Mayor Kopak on Jan.21, 2004.

A supplemental public announcement was made in early May where the status of our exploration activities was provided to the Hamlet of Repulse Bay. Appendix 4 (reference NWB Annual Report) is a copy of this notice. A visit to the campsite and a fly over of the drill sites was conducted on June 5, 2004 for the mayor, council, elders and family members of local hires. A total of 30 people from Repulse Bay participated in the tour and presentation on activities.

The Camp Manager and the Environment and Community Advisor made numerous informal updates on the project status to the Hamlet Council. Again the major issues related to local hiring, training and hunting activities.

MLA Steve Mapsalak participated in a tour of the campsite facilities and was provided a detail update on project status, number of local hires and BHPBilliton's commitment to providing on-the-job training to the local hires.

The Hunters and Trappers Organization (HTO) filed a complaint on June 15, 2004 with the Land Use Inspector and the Kivalliq Inuit Association relating to adherence to permit requirements relating to the Helicopter flight elevation. A meeting was requested by BHPB to better understand the concerns and to better be able to address the issues.

Appendix 6 is a copy of the minutes and the action taken by BHPBilliton regarding this complaint. (Nunavut Annual Report)

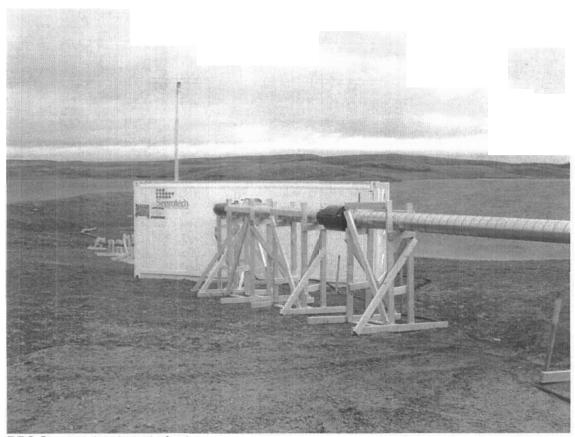
#### Other Permits Relating to this Project

Kivalliq Class B Land licence KVL204C24 Nunavut Water Licence NWB2REP0305

#### Attachments:

- Camp and drill site location map
- RBC photo
- Fuel transfer berms
- RC rig photo
- Camp overview photo





RBC Sewage treatment plant



Mini-berm for fuel transfer and interim storage



RC Rig at work on lake ice



Qilalugaq camp in summer (looking East)