

Notice of Work

Volcanic Road - Aggregate Exploration Tracking Number: 100239536

Applicant Information

If approved, will the authorization be issued to an Individual or Company/Organization?

Company/Organization

What is your relationship to the

Employee

company/organization?

APPLICANT COMPANY/ORGANIZATION CONTACT INFORMATION

Applicant is an Individual or an Organization to whom this authorization Permit / Tenure / Licence will be issued, if approved.

Name:

Interoute Construction Ltd.

Doing Business As:

Phone:

604-575-3473

Fax:

604-575-3691

Email:

erwin.spletzer@terusconstruction.ca

BC Incorporation Number: Extra Provincial Inc. No:

0497648

Society Number:

GST Registration Number: Contact Name:

Erwin Spletzer

Mailing Address:

201-5550 152nd Street

Surrey BC V3S 5J9

TECHNICAL INFORMATION

APPLICATION INFORMATION

Type of Notice of Work:

Sand & Gravel

Is this a New Permit or an Amendment to an

New Permit

existing permit for this property?

MINE INFORMATION

Do you have an existing mine number?

No

Name of the property:

Volcanic Road - Aggregate Exploration

Tenure Numbers:

Crown Grant / District Lot Numbers:

Directions to site from nearest

municipality:

he Volcanic Road aggregate exploration area (red outline) is located ~14.6 km due north of Grand Forks. To access the site you cross the Granby River bridge on the east end of Grand Forks, and turn left onto Granby Road and follow for ~15.7 km to a point just east of the Granby River Crossing, then you turn right onto North Fork Road and proceed for ~940 m to Volcanic Creek FSR located on the right. Follow Volcanic Creek FSR for ~600 m to the aggregate exploration site (Figure 1).

Geographic Coordinates of Mine:

Latitude: 49.1554000 Longitude: -118.4439000

Maximum Annual Tonnage Extracted:

0 tonnes

INFORMATION ABOUT PROPOSED ACTIVITIES

Activities to be undertaken:

Mechanical Trenching / Test Pits

FIRST AID

Tracking Number: 100239536 | Version 1.6 | Submitted Date: Feb 14, 2018

Page 1 of 8

Proposed First Aid equipment on site:

Level 1

Level of First Aid Certificate held by attendant:

Occupational First Aid Level 1 with Transportation Endorsement

DESCRIPTION OF WORK PROGRAM

If you prefer to upload a document, please enter "see attached document" and attach the document in the "Document Upload" step later in the application under "Other".

Sufficient details of your work program to enable a good understanding of the types and scope of the activities that will be conducted:

All activities will be carried out within the proposed (red outline) area as noted on Figures 1 thru 4. Within the red outline are located the seven (7) test pits having locations as follows:

Test Pit Number UTM 11U (Easting) UTM 11U (Northing)

5445746

TP No. 1 394586 5445666 TP No. 2 394618 5445720 TP No. 3 394706 5445822 TP No. 4 394794 5445845 TP No. 5 394874 5445899 TP No. 6 394772 5445708

394872

TP No. 7

Within the (red outline) as noted on Figure 4, the area of testing is fairly open in nature, so trail construction will not be required to access the individual test pit sites. However, it is anticipated that for some pits there may be a requirement to cut a few trees (<10 m3) total, while in other cases the excavator will just be able to walk across the open areas to the test pit sites without any disturbances.

It should be noted that the overall area of interest is defined as upland in nature, with conifer trees aged ~105 years located throughout, and is open in nature (see Figure 4).

To complete the test pit program, the company is looking to rent a small 300 series Cat excavator with rubber tracks for the test pitting. The test pits will typically have dimensions of 1.5 m wide by length of 3 m land 3 m depth. The excavator will remove and stockpile all vegetation (grasses) at each test dig site. The internal spoil will be temporarily stored to the side of the excavation in a stable location. The test pit soil profiles will then be logged, and occasional grab samples will be taken for further inspection and laboratory testing (analysis of quality and suitability for potential use in fill, asphalt paving, etc.). Generally four (4) to six (6) grab samples, each containing up to 20 kilograms of soil, per test pit will be sufficient.

TIME OF PROPOSED ACTIVITIES

Original Start Date:

Proposed start and end date:

Sep 3, 2018 to Oct 31, 2018

Please remember that you need to give 10 days notice to the Inspector of Mines of your intention to start work, and 7 days notice of your intention to stop work.

ACCESS

Access presently gated:

No

PRESENT STATE OF LAND

Please identify what the present state of the land is where you would like to undertake your activities. If some of the questions do not apply to you please enter n/a in the space provided.

Present condition of the land:

The area is currently (conifer) treed cover, however it is upland and open in nature

Type of vegetation:

Conifer trees and shrubs

Physiography:

The area is sloping hillside without terrain hazards Public access and Forest Services Roads

Current means of access: Old equipment:

None

Recreational trails / use:

None

Tracking Number: 100239536 | Version 1.6 | Submitted Date: Feb 14, 2018

Page 2 of 8

ACCESS TO TENURE

Do you need to build a road, create stream crossings or other surface disturbance that will not be on your tenure?

No

Yes

No

LAND OWNERSHIP

Application area in a community watershed: No Proposed activities on private land: No

Proposed activities on Crown land: Licence of Occupation:

Have you applied for a Licence of Occupation? No

Please apply for a Licence of Occupation.

Activities in a park: No

CULTURAL HERITAGE RESOURCES

Cultural Heritage applies to a large spectrum of heritage resources that is defined as "an object, a site or the location of a traditional societal practice that is of historical, cultural or archaeological significance to British Columbia, a community or an aboriginal people."

The Archaeology Branch of the Ministry of Forests, Land and Natural Resource Operations is responsible for the administration of the Heritage Conservation Act as it applies to archaeological sites. The Archaeology Branch has developed guidelines for companies engaged in natural resource extraction to aid in planning for and avoiding or managing impacts to protected archaeological sites.

Are you aware of any protected archaeological sites No that may be affected by the proposed project?

FIRST NATIONS ENGAGEMENT

In making decisions on authorizations, the government will be fulfilling its responsibility to consult, and where appropriate, accommodate First Nations. The government takes this responsibility seriously and encourages the applicant to engage First Nations early and often as part of any planned development.

Establishing good relations with First Nations who might be affected by a proposed development is a key part of any successful mining operation. The Ministry of Energy and Mines encourages applicants to engage and information share with First Nations that might be affected by a proposed development prior to submitting an application. The earlier in the life of a proposed activity that the avenues of communication are established the greater the likelihood that the relationships formed will be constructive and beneficial to all parties. A lack of information sharing and engagement by the applicant may result in extended timeframes for decision.

Applicants should keep a detailed record of information sharing and engagement with First Nations on their project in the event the government needs to review it. Information on First Nations information sharing and engagement should include the following: a list of First Nations contacted, whether the activity was modified based on feedback from First Nations, and whether the applicant has entered into any informal or formal agreements with First Nations in connection with the project.

Tracking Number: 100239536 | Version 1.6 | Submitted Date: Feb 14, 2018

Page 3 of 8

The Consultative Areas Database Public Map Service is an online, interactive mapping tool that allows you to identify First Nations who have treaty rights or asserted or proven rights or title on the land base. More information can be found at http://maps.gov.bc.ca/ess/sv/cadb/.

Have you shared information and engaged with First N

Nations in the area of the proposed activity?

MECHANICAL TRENCHING / TEST PITS

MAPS

Unless this is an area based application mark the locations of the proposed trenches/pits on the map. You will upload the maps at the document upload step later in the application process.

ACTIVITIES

Click on the "Add Activity" button to add one or more activities. Select your activity out of the list and enter the disturbed area and timber volume.

			Merchantable
Activity	Number of sites	Disturbed Area (ha)	timber volume (m³)
Trenches and Test Pits	7	0.01	10.00
Total:		0.01	10.00

RECLAMATION PROGRAM

Describe the proposed reclamation and timing for this specific activity:

The reclamation measures and schedule proposed for the site are aimed at achieving end land use objectives as required by Part 10.7.4 and 10.7.5 of the Health, Safety and Reclamation Code for Mines in BC, 2017.

The reclamation of the test pits will be immediately backfilled after testing, using the same native materials excavated from the pit in opposite order that the pits were dug. Due to bulking factor, the backfill will leave the ground with a mound of about 0.25 m high, however due to natural effects; the mounds will tend to dissipate (flatten) in the short order. The mineral soil, topsoil and vegetation that were stockpiled separately will be returned to their original position(s) to promote revegetation of the disturbed ground.

Estimated cost of reclamation activities described above:

\$2,000.00

TIMBER CUTTING

Total merchantable timber volume:

10.00 m3

Free Use PermitBased on the information provided you will require a Free Use Permit as the total volume of merchantable timber to be cut does not exceed 50 m3. This permit will be automatically applied for as part of this Notice of Work.

EQUIPMENT

Click on the "Add Equipment" button to add one type of equipment at a time. All equipment must comply with the requirements of the Health, Safety and Reclamation Code.

Quantity	Туре	Size / Capacity
1	Excavator	Cat 300 Series - 0.3 yd3

SUMMARY OF RECLAMATION

Based on the information you have provided on the previous screens the Summary of Reclamation is:

Activity	Total Affected area	Estimated cost of
Tracking Number: 100239536 Version 1.6 Submitted Date: Feb 14, 2018		Page 4 of 8

	(ha)	reclamation (\$)
Mechanical Trenching, etc.	0.01	2,000.00
Subtotal:	0.01	2,000.00
Unreclaimed disturbance from previous year:	0.00	
Disturbance planned for reclamation this year:	0.00	
Total:	0.01	2,000.00

OTHER CONTACTS

Please enter the contacts that are applicable to your application.

Contact Info

Name: Phone: **Erwin Spletzer**

Daytime Phone:

604-575-3689 604-575-3473 604-575-3691

Fax: Email:

erwin.spletzer@terusconstruction.ca

Mailing Address:

201-5550 152nd Street Surrey BC V3S 5J9

Contact Info

Name: **Doing Business As:** Interoute Construction Ltd.

604-575-3698 (TYPO - S/B-604-575-3689)

Phone: Fax:

Email:

604-575-3691 erwin.spletzer@terusconstruction.ca

BC Inc. Number:

0497648

GST Registration Number:

Contact Name:

Mailing Address:

Erwin Spletzer 201-5550 152nd Street

0497648

Surrey BC V3S 5J9

Name:

Doing Business As:

Interoute Construction Ltd.

604-575-3698 - (TYPO-S/B-604-575-3639)

Phone: Fax:

604-575-3691 Email: erwin.spletzer@terusconstruction.ca

BC Inc. Number:

GST Registration Number:

Contact Name:

Erwin Spletzer 201-5550 152nd Street Mailing Address: Surrey BC V3S 5J9

Name:

Doing Business As:

Interoute Construction Ltd.

604-575-3698-TYPO-58-604-545-5689

Phone: Fax:

604-575-3691 Email: erwin.spletzer@terusconstruction.ca

BC Inc. Number:

GST Registration Number:

Contact Name: Mailing Address: **Erwin Spletzer** 201-5550 152nd Street

0497648

Surrey BC V3S 5J9

Tracking Number: 100239536 | Version 1.6 | Submitted Date: Feb 14, 2018

Site operator

Type of Contact

Type of Contact

Tenure Holder

Permittee

Mine manager

Page 5 of 8

LOCATION INFORMATION

LAND DETAILS

Do you have the legal description of the land or the civic address then click on 'Add Land Information'.

All applications must include the appropriate maps and applications received without maps will be returned. All maps must be in colour, computer generated, with a scale, north arrow and a detailed legend.

For Mineral, Coal and Placer applications you must provide a minimum of 3 maps:

- A Location Map which must show the location of the property in relation to the nearest community with the access route from the community to the work site clearly marked;
- A Tenure Map which must show the boundaries of the tenure(s) and tenure numbers, at a scale of 1:20,000 or less;
- A Map of Proposed Work which must show topography, water courses, existing access, existing disturbance, contour lines, known cultural heritage resources and/or protected heritage property, at a scale of 1:10,000 or 1:5,000. For site specific applications the location of all proposed exploration activities must be shown; for area-based applications the work area must be shown as a polygon, with the location of all proposed exploration activities for year 1 shown, and shape files provided of the area.

For Sand & Gravel/Quarry applications you must provide a Plan View, Cross and Longitudinal Sections and a Land Title/Crown Land Tenure Map. Details of these requirements are listed in the Sand & Gravel/Quarry Operations Activity sheet.

☑ I have one or more files (PDF, JPG, PNG etc.) with my maps

MAD FILES

Do you have a PDF or image file of a drawn map? You can upload it here.

Description	Filename
Volcanic Road_Detailed Location Map_Fig 2	Interoute_Volcanic Road_Det
Volcanic Road_Detailed Site Map_Fig 3	Interoute_Volcanic Road_Det
Volcanic Road_General Location Map_Fig 1	Interoute_Volcanic Road_Gen
Volcanic Road_Orthophoto Map_Fig 4	Interoute Volcanic Road Ort

☑ I have shape files from my Geographic Information System

SPATIAL FILES

Do you have a spatial file from your GIS system? You can upload it here.

Description	Filename
Volcanic_Poly.dbf	Polygon.dbf
Volcanic_Poly.prj	Polygon.prj
Volcanic_Poly.shp	Polygon.shp
Volcanic_Poly.shx	Polygon.shx

ATTACHED DOCUMENTS

Document Type	Description	Filename
Archaeological Chance Find Procedure	Volcanic Road_CFP_13Feb18	Interoute_Volcanic Road_CFP
Mine Emergency Response Plan	Volcanic Road_MERP_13Feb18	Interoute_Volcanic Road_MER

Tracking Number: 100239536 | Version 1.6 | Submitted Date: Feb 14, 2018

Page 6 of 8

Other

Badger Management Plan

Interoute_Volcanic Road_Bad...

Other

Volcanic_Cover Letter

Interoute_Volcanic Road_Cov...

PRIVACY DECLARATION

PRIVACY NOTE FOR THE COLLECTION, USE AND DISCLOSURE OF PERSONAL INFORMATION

Personal information is collected by FrontCounter BC under the legal authority of section 26 (c) and 27 (1)(a)(i) of the Freedom of Information and Protection of Privacy Act (the Act).

The collection, use, and disclosure of personal information is subject to the provisions of the Act. The personal information collected by FrontCounter BC will be used to process your inquiry or application(s). It may also be shared when strictly necessary with partner agencies that are also subject to the provisions of the Act. The personal information supplied in the application package may be used for referrals or notifications as required. Personal information may be used by FrontCounter BC for survey purposes. For more information regarding the collection, use, and/or disclosure of your personal information by FrontCounter BC, please contact FrontCounter BC at 1-877-855-3222 or at:

FrontCounter BC Program Director

FrontCounter BC, Provincial Operation

441 Columbia Street

Kamloops, BC V2C 2T3

☑ Check here to indicate that you have read and agree to the privacy declaration stated above.

REFERRAL INFORMATION

Some applications may also be passed on to other agencies, ministries or other affected parties for referral or consultation purposes. A referral or notification is necessary when the approval of your application might affect someone else's rights or resources or those of the citizens of BC. An example of someone who could receive your application for referral purposes is a habitat officer who looks after the fish and wildlife in the area of your application. This does not apply to all applications and is done only when required.

Please enter contact information below for the person who would best answer questions about your application that may arise from anyone who received a referral or notification.

Company / Organization:

Interoute Construction Ltd.

Contact Name:

Erwin Spletzer

Contact Address:

201-5550 152nd Street Surrey BC V3S 5J9

Contact Phone: 604-575-3473

Contact Email:

erwin.spletzer@terusconstruction.ca

☑ I hereby consent to the disclosure of the information contained in this application to other agencies, government ministries or other affected parties for referral or First Nation consultation purposes.

IMPORTANT NOTICES

• Once you click 'Next' the application will be locked down and you will NOT be able to edit it any more.

DECLARATION

☑ By submitting this application form, I, declare that the information contained on this form is complete and accurate.

OTHER INFORMATION

Is there any other information you would like us to know?

No

OFFICE

Office to submit application to:

Cranbrook

PROJECT INFORMATION

Is this application for an activity or project which

Tracking Number: 100239536 | Version 1.6 | Submitted Date: Feb 14, 2018

No

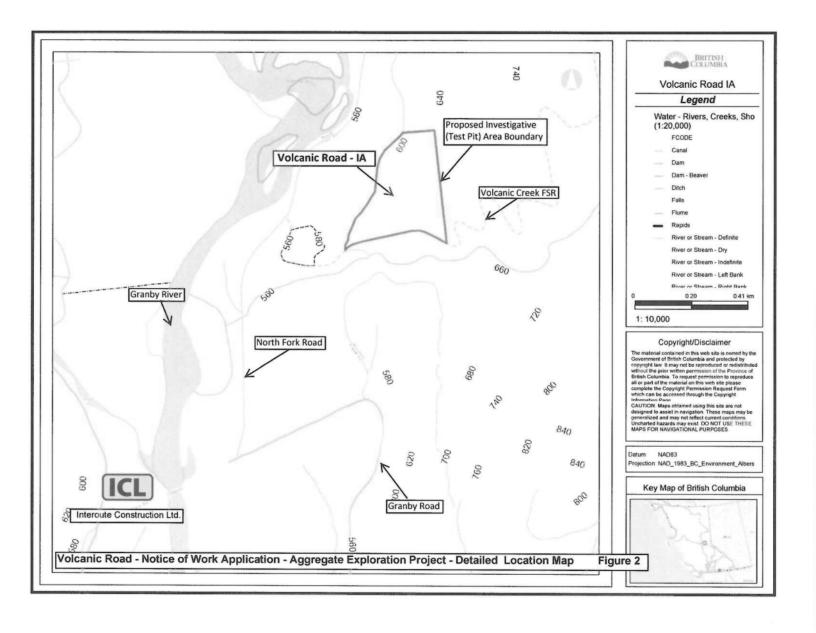
Page 7 of 8

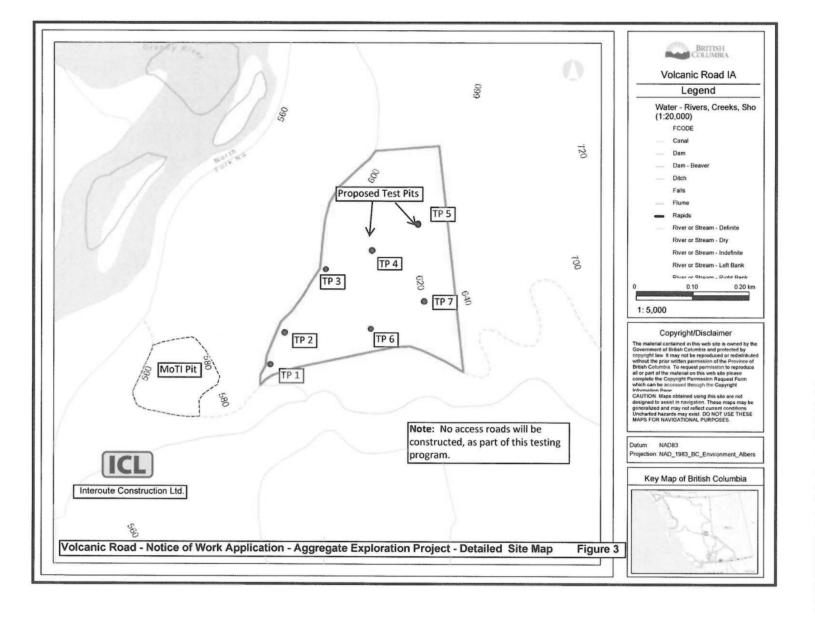
requires more than one natural resource authorization from the Province of BC?

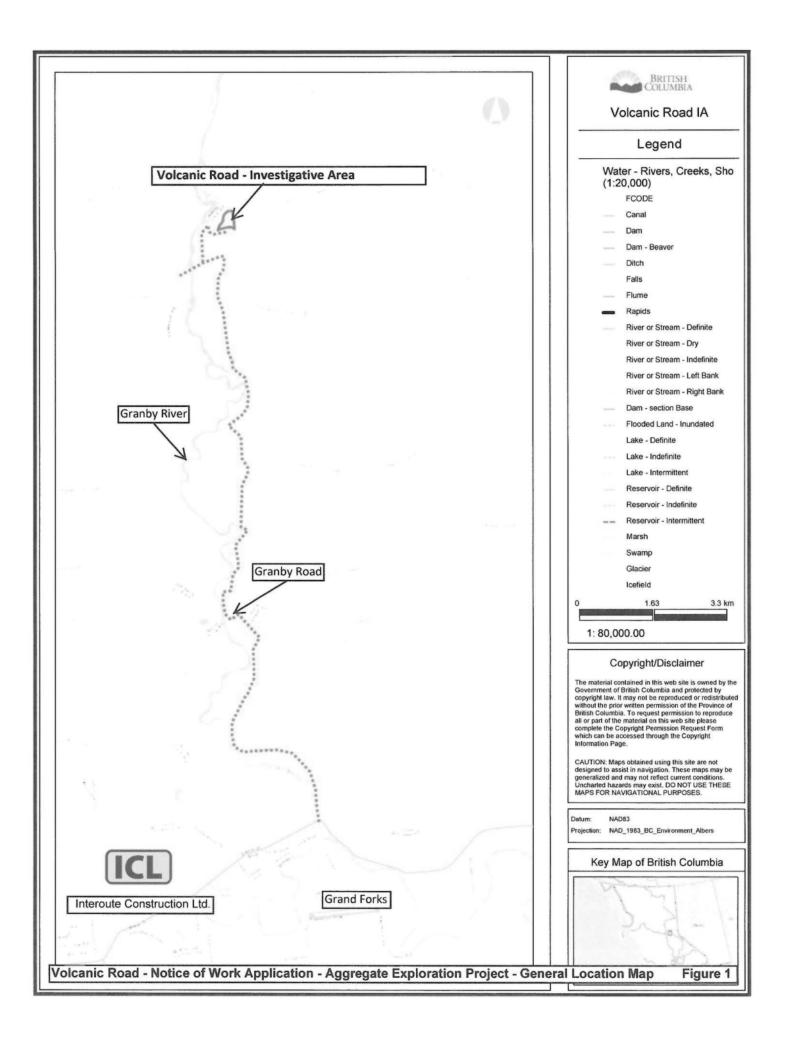
PPLICANT SIGNATURE		
Applicant Signature	Date	

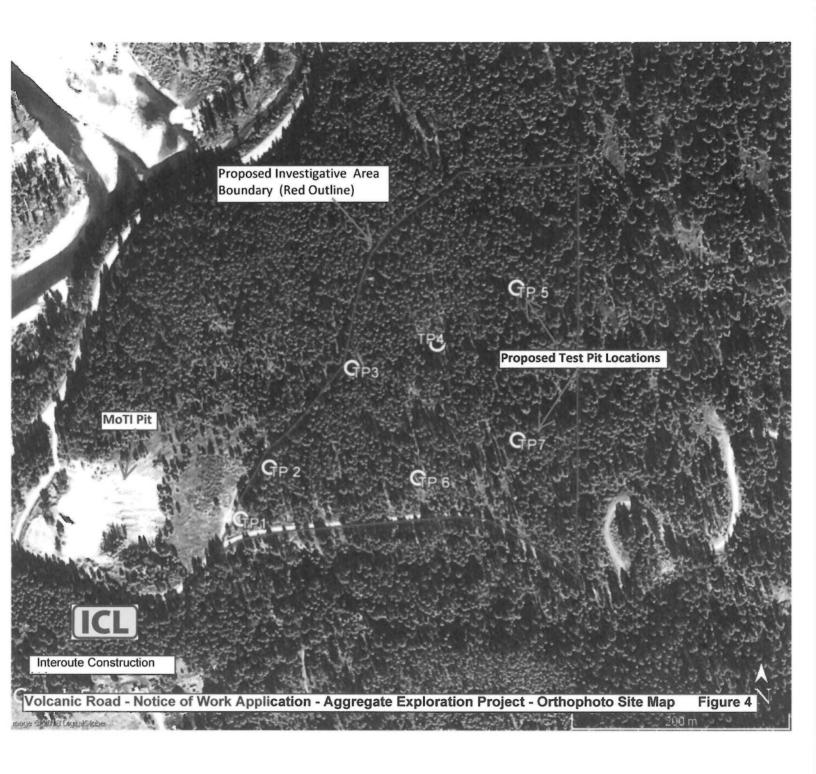
OFFICE USE ONLY		
Office Cranbrook	File Number	Project Number
	Disposition ID	Client Number

Tracking Number: 100239536 | Version 1.6 | Submitted Date: Feb 14, 2018









Archaeological Chance Find Procedure

Volcanic Road – Notice of Work – Aggregate Exploration Project Interoute Construction Ltd.

This protocol has been established to increase awareness of the importance of archaeological resource and to assist in planning future developments. The chance find procedures (CFP) outline the protocol to be followed if a new archaeology or heritage resources are encountered during sand and gravel excavations. These, however, can also be applied to any incidental observations of artifacts or sites that are made by non-mine personnel such as contractors or site visitors.

The general types of archaeological and heritage resources may include finds such as:

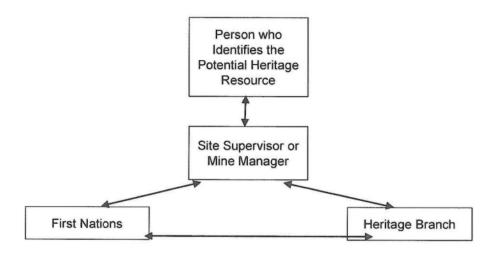
- · Rock art, including pictographs and petro glyphs;
- Tree art and Culturally Modified Trees (CMT'S) such as bark stripping and planks;
- Surface features such as depressions created by former habitations, earthen fortifications; rock cairns, fish traps, clam gardens, burned rock and middens;
- Artifacts that have become visible on the land surface owing to erosion or recent land altering
 activity. These may be produced in a variety of materials such as stone, bone, antler, wood, or
 shell; and
- Buried cultural remains that may be sighted in a cut-bank, excavation, eroded shoreline, or other exposed deposit.

If any unidentified or previously unrecorded cultural heritage features are encountered during the investigation of the aggregate resource, all work will stop, and the Archaeology Branch (Ministry of Tourism, Culture and the Arts) and the affected First Nations will be informed. All archaeological sites within the province of British Columbia are protected from disturbance, whether intentional or inadvertent, by the *Heritage Conservation Act* (2003).

If you discover what you suspect may be a possible archaeological site:

- Stop all work in the area to avoid damaging the site.
- Do not disturb any archaeological remains that you may encounter.
- Report your discovery to your supervisor or if they are unavailable, then first to Erwin Spletzer,
 Manager who will provide further instructions, contact number (604) 575-3473.
- If you are unable to contact Erwin Spletzer, please contact Jim Spafford of the Archaeology Branch by telephone at (250) 952-4877 or email <u>Jim.Spafford@gov.bc.ca</u>

Chain of Communication for Archaeological Management



May 25, 2010

- An archaeological or heritage resources site card must be completed. The person who identifies
 the potential archaeological/heritage resource or the site mine manager may complete the
 archaeology site card with the following basic information:
 - Date (when the archaeological find was first encountered)
 - Observer (name of the person recording the information on the site or artifact)
 - Site location (detailed enough so that it can be relocated, GPS if possible)
 - Type of site (e.g. archaeological site, burial site or artifact)
 - Disturbance (any obvious disturbance to the site, e.g. equipment, animals, etc.)
 - Photographs

The person collecting the information should be careful not to disturb the site further. If an artifact has been found, it must not be removed from the site.

- Archaeology site cards must be submitted to the Interoute Construction Ltd. site office including photographs for project (mine) records.
- The site manager will contact a qualified archaeologist, and the Archaeology Branch, and provide details of the suspected site or artifact. If photographs are available, these can be provided to the archaeologist for preliminary assessment.
- The qualified archaeologist will go onsite to survey and document the find. The qualified
 archaeologist will assess the significance of the remains. Mitigation options for the site or artifact
 will be drafted by the archaeologist, and reviewed by the Archaeology Branch, and the affected
 First Nations. Agreement on mitigation approach will be determined by the qualified
 archaeologist in coordination with the Archaeology Branch and affected First Nations.

If you discover what you suspect may be a possible human remains:

- Stop all work in the area to avoid damaging the site.
- Do not disturb any possible human remains that you may encounter.
- Report your discovery to your supervisor or if they are unavailable, then contact Erwin Spletzer,
 Manager who will provide further instructions.
- If you are unable to contact Erwin Spletzer, Manager, and if the suspected human remains appear to be current, contact the RCMP at Grand Forks, BC (250) 422-8281 or 911.
- If you are unable to contact Erwin Spletzer, Manager at (604) 575-3473 please contact the Archaeology Branch by telephone at (250) 952-4877.

The following steps will generally be followed

- The Coroner's Office and local policing authority are notified and the Coroner's Office determines whether the matter is of contemporary forensic concern.
- If the remains are not of forensic concern, the branch will attempt to facilitate disposition of the remains.
- If a cultural affiliation for the remains can be determined, the branch will contact an organization representing that cultural group. If the remains are of aboriginal ancestry, the branch will attempt to contact the relevant First Nation(s).
- Generally, if remains are still buried and are under no immediate threat of further disturbance, they will not be excavated or removed. If the remains have been partially or completely removed, the branch will facilitate disposition.
- The branch may arrange for a qualified anthropologist or archaeologist to provide an assessment of the remains.

May 25, 2010

Archaeological Chance Find Report for the Volcanic Road Pit -Aggregate Exploration Project
Name of Recorder:
Date and Time of Discovery:
Location (site name, co-ordinate, DBS):
Description of Find:
Photographs:
Who was contacted (Interoute personnel, First Nations, Archaeological Branch)? Recorded the name date, time, phone number, and details of conversation; use a separate sheet if necessary:
Protection measures to be implemented:
Movable or immovable:
If moved location:
Further action required:
Date and time work in area recommenced:
Printed name and signature of site contractor:
Date submitted:

Page 16 of 30 to/à Page 29 of 30
Withheld pursuant to/removed as
Copyright

Kootenay Boundary Region – First Nations Relations Consultation Request Intake Form FCBC.CBK@Gov.bc.ca

DATE: (Received) February 14, 2018	DATE: (Requ	ired)	FILE NO: (Project File No. and ATS No.) Mine File 14675-20-1631059201801		
PROGRAM/BUSINESS LINE/SECTOR: (Eg. Lands, Water Stewardship, Forests, Environment, Mines, Recreation) Ministry of Energy and Mines					
AUTHORIZATION TYPE/LEGISLATION and SECTION: License of Occupation, Water Sec. 11, Timber: FUP/L2C, Access Manament Plan) Mines Act Permit					
PROJECT ACTIVITY DESCRIPTION:	(Eg. Forest Stew	ardship Plan, Gravel Quarry,	Power Line Right of Way)		
Sand and Gravel exploration involving 7 te	st pits on crowr	land.			
PROVINCIAL APPROACH: Single-A	Agency Decisi	ion or Multi Agend	cy-Project Decision ⊠		
PROPONENT: (Company, Name)					
Interoute Construction Ltd. Erwin Spletzer Phone : 604-575-3473					
erwin.spletzer@terusconstruction.ca					
201-5550 152nd Street Surrey BC V3S	5 5 J 9				
LOCATION: (Geographic, Physical) Grand Forks, BC					
MAPPING INFO: (Geo Mark, KML, Sha	pe files if availal	ole)			
	3				
Mapsheet: 082E018 gm-266E6F31E	DBD6498B9D32	D8DCF3596907.kml			
am 26656521DBD6408B0D22D8D	CE3E06007 htm				
gm-266E6F31DBD6498B9D32D8D AREA SIZE: (Hectares, Cubic Meters, Vo		1			
0.01 ha	iuilie)				
CONTACT PERSON: (Statutory Decisio	n Maker, Progra	am/Business Officer)			
Gerald Crawford, Inspector of Mines					
BACKGROUND INFORMATION: (Pr FNR staff. What is the application and who					
NEW PERMIT					
NEW PERIVIT					
SUPPORTING INFORMATION example: (include information that supports the consultation review process)					
Application Form (Project Descript Operational/Management Plan (if			All post on Constant and All States		
Map/s (GEO Mark, shape file/s, sca		□			
RAAD Info, AOA, AIA (if applicable)					
GIS Status/Clearance					
Proponent Information Sharing (if	applicable)				
FN Consultation History (letters, co	A				
EReferrals, Other Agency Commen	ts	_			
Other		Ц			
FIRST NATION RELATIONS only: (Internal review for acceptance) Yes No (incomplete					
information return to Business Line contact person to complete request information)					
COMMENTS:					