

# APPLICATION FOR RESOURCE CONSENT

Office Use Only

## GOLD MINING



Under the Resource Management Act 1991, resource consents are required for various activities associated with mining or quarrying. These activities may include any or all of the following:

- a) earthworks
- b) discharging treated stormwater/process water from the site
- c) discharge of contaminants (e.g. dust) into the air
- d) taking water
- e) damming water (e.g. to construct water impoundments)
- f) diverting water (e.g. diverting natural watercourses or stormwater from entering the site)
- g) undertaking works in the bed of a natural watercourse (e.g. suction dredging)

It is recommended that, prior to lodging any consent applications, you discuss the specific requirements at your site with West Coast Regional Council Consents Staff. This will help to ensure that you apply for the appropriate consents. This applies even if you are replacing previously held consents.

### Location

Please provide details / a detailed map (Site Plan) of where the activity will occur.

You must supply a location map or diagram on a separate sheet of paper that shows the site of your activity and its local environment. A useful addition to this application would be recent site photographs.

This helps us determine what or who may be affected by your proposal. Please show:

- orientation (North arrow and scale)
- site location
- the location and name of the nearest road or state highway
- location/s of the activities for which you are applying for consent
- access roads or tracks
- structures, eg culverts, bridges, stopbanks
- property boundaries and neighbouring properties (as well as neighbouring property owners' names)
- if applicable, a Certificate of Title
- location and names of any nearby natural features such as geothermal activity, waterways, wetlands or wildlife habitats
- historic or waahi tapu sites
- existing roads, tracks, buildings
- drainage (streams, rivers, drains)
- any wetlands and/or wildlife habitats

For Earthworks:

- *maximum area to be worked*
- *proposed direction of mining*
- *topsoil pile*
- *overburden pile*
- *washing area*
- *settling ponds*
- *buffer zones along waterways*
- *fuel store*

For Streamworks:

- *water uptake point*
- *stream diversion point*
- *post treatment discharge point*
- *dam*

**Note:** West Coast Regional Council can help you create a base map to assist with your location plan. Please call us on (03) 768 0466 or 0508 800 118 during office hours for assistance, or call in to our office at 388 Main South Road, Paroa, Greymouth.

Is this consent application seeking to replace an existing one?

Yes  No

***If yes, please ensure you complete the section "Value of Consent Holder Investment" on Form 1: Administration.***

If yes, what is the current consent number?

### **Crown Minerals Permit**

In addition to gaining the necessary resource consents, a Crown Minerals Permit (CMP) is likely to be required for any goldmining activity.

Have you applied for a CMP?

Yes  No

If No:

When will you do this?

What term will you be seeking?

If Yes:

What term has been sought/granted?

What is your CMP number?

Is this resource consent application for all or part only of the total area of your CMP?

All  Part

If the consent is for only part of the CMP area please explain why:

## Description of Activity

In this section you should indicate as far as possible the way you plan to carry out your mining activity. As consents are generally granted for either land based activities or those to do with water use, the following questions will ask you for brief answers along those lines. Once consent is granted you will be required to give more comprehensive details about your onsite operations as per the requirements of the Annual Work Programme.

### Type of mining activity

Please indicate which mining method/s you intend to use: *(Tick the appropriate box/es)*

**NOTE:** small scale suction dredging is potentially a permitted activity

- Exploration
- Recreational/non-motorised
- Small suction dredging
- Floating Dredge & Hydraulic excavator
- Land based
- Other (please describe briefly)

If you intend to use a Suction Dredge please give the following specifications:

Dredge power rating   Hp  KW

Nozzle Diameter  millimetres

Maximum depth dredge can work to  metres

Other information about this dredge

What other machinery will you use on site? *Put vehicle numbers in the spaces*

Truck/s

Front end loader/s

Bulldozer/s

Digger/s

Other (describe briefly type and use):

Regarding personnel to be on site, will there be a day hut and/or living quarters?

Yes

No

If yes, ensure hut location/s are noted on the Site Plan and write down how many workers and any other notes here

**Management of land based activities on site**

What will the maximum area of disturbed, i.e. non rehabilitated, land be at any one time?

Square Metres

Hectares

What is the maximum depth of your proposed earthworks?

Metres

**Advice note:** Your answers to the questions above will be used by the Council to determine the appropriate bond quantum. The disturbed area should include your settling pond system.

What is the general work plan for carrying out earth disturbance activities on site?

Briefly describe here and ensure key points are noted on the Site Plan. Sample phrases are: "bulldoze a track to work area from property boundary" "start stripping at northeast corner and work across slope" "truck topsoil to stockpile at X" "form bund for fuel store at...." etc

Will you need to construct any new access tracks within the site?

Yes     No

If Yes, ensure marked on the Site Plan and describe briefly here

When stripping the site, what will you do with the vegetation layer?

**NOTE:** This may depend on the requirements of the owner

When stripping the site what are the predicted thicknesses for?

The topsoil thick            Metres

The overburden thick            Metres

The wash thick            Metres

### Management of water use on site

Briefly describe onsite activities where you will utilise water. These should be noted on the Site Plan. *Sample phrases are: "divert water for screening at X on map" "have 3 settling ponds in series" "discharge treated water back into creek at Y" "divert creek between P and Q"*

Where will you get your processing water-supply from *(Tick as appropriate)*

Stream running through the site? Specify name:

Stream outside the site? Specify name:

Recycled from settling ponds?

Dam?

Other (describe briefly)?

If you plan to take stream water, what proportion of the mean stream flow will you take?  %

Will this be a continuous take?

Yes  No

***If you plan to use recycled water from a sediment settling pond, show pond location/s on the Site Plan***

If you plan to construct a dam, please attach diagrams to this application showing key specifications, i.e. dam catchment area, dam height, crest width, spillway width or overflow pipe diameter.

How will you manage the sediment produced by your operation? *(Tick as appropriate)*

Settling ponds

Flocculants

Both ponds & flocculants

**If you intend to use settling ponds, please ensure that you outline their location, number and approximate dimensions on the Site Plan.**

Will water from the settling ponds be discharged: *(Tick as appropriate)*

- Directly to water?
- Via overland flow?
- Via seepage to groundwater?

How will the settling ponds be maintained to ensure they are operating effectively?

Do you plan to have a water recycling system?

- Yes
- No

If yes, briefly describe key aspects here:

Do you plan to discharge treated water back to the stream again *(Tick as appropriate)*

- Continuously?
- Intermittently?

Do you plan to divert the stream at any time?

- Yes
- No

If yes, ensure the location of this is shown on the Site Plan and describe briefly:

Have you considered the need for stormwater management for your site?

Yes  No

If No, why not?

If Yes, what have you planned?

### Site rehabilitation

A condition of resource consent will be that the site must be rehabilitated post mining. You will also be required to pay a bond to council to ensure rehabilitation is carried out satisfactorily.

**NOTE:** *PF Olsen Ltd manages large tracts of land which are mined for gold. In many cases they are the occupiers of that land only, not the owners. The Crown Minerals Act states that you must have an access agreement with each and every OWNER and OCCUPIER of the land and these agreements may also prescribe restoration requirements, if relevant.*

As relevant, has the subject of post mining land use been discussed with the landowner, and where relevant, the occupier?

Yes  No

If yes, what has been decided regarding post mining drainage, e.g. leave changes/diversions made or revert to original watercourses/drainage, fill in dredge and settling ponds etc, landscape to give particular slope angle etc?

If no, why not and/or what other plans are there for the site?



What uses will the owner or occupier put the rehabilitated land to? *(Tick option choices)*

- Farm pasture
- Horticultural
- Exotic Forestry
- Indigenous Forestry
- Wetland
- Native Restoration
- Other (describe briefly)

Will you be carrying out rehabilitation work: *(tick your choice)*

- while mining is in progress?
- at the end of the operation?

Give a reason for your choice:

## Assessment of Environmental Effects

Alluvial gold mining operations have the potential to cause significant environmental impacts. As an applicant it is therefore necessary for you to identify all the possible effects your proposed operation could have on the environment and describe how you can avoid causing them or how you can mitigate them (i.e. reduce the effects to a level the council will approve of).

### Identification of Environmental Impacts

Read the list below and tick the boxes relevant to this application. Use "other" if an effect you will cause is not listed.

*Think who/what/where/when/why.*

#### Does your proposal have the potential to cause?

Any stripping/disturbance of vegetation and/or soil?

Yes  No

If no, explain why not.

Erosion of stream banks or lakesides?

Yes  No

If no, explain why not.

Sedimentation of stream water?

Yes  No

If no, explain why not.

Reduction in stream floodway capacity?

Yes  No

If no, explain why not.

Reduction of downstream water quality for domestic and/or dairy shed water supplies?

Yes  No

If no, explain why not.

Reduction of downstream water quality for aquatic life (invertebrates, fish)?

Yes  No

If no, explain why not.

Reduction of downstream water quality for aquatic plants?

Yes  No

If no, explain why not.

Closure of public access to rivers/beaches, e.g. for recreational activities?

Yes  No

If no, explain why not.

Reduction in the public amenity value of a well used local recreational area?

Yes  No

If no, explain why not.

Any adverse effects on an area valued by iwi/hapu for food gathering or other cultural activities?

Yes  No

If no, explain why not.

Any adverse effects on a known significant site (i.e. archaeological, historical, heritage, geopreservation, Maori or other special site)?

Yes  No

If no, explain why not.

Introduction of unwanted waterborne organisms, e.g. didymo, oxygen weeds?

Yes     No

If no, explain why not.

Effects other than those listed above? *(give a short explanation)*

**Avoidance - Mitigation Methods**

List below the items you ticked **Yes** to in the previous questions (*one item per set of lines*). These are the environmental effects you have identified which your proposed operation has the potential to cause.

Briefly describe against each of the items you have identified, the method/s you will use to avoid causing those effects OR to mitigate them. Refer back to other parts of this application form as relevant. e.g. *will use settling ponds to reduce sedimentation*. Attach extra sheets if necessary at the end of this application form.

## Refuelling/Vehicle - Machinery Maintenance

Where will machinery involved in the operation be refuelled or/maintained/repaired?

What measures are proposed to prevent fuel spills?

Do you have an emergency oil/fuel spill kit?

Yes  No

If no, explain what you would do if you have an oil/fuel spill.

If you will be using a suction dredge can you refuel it away from water?

Yes  No

## Completion of Mining Operations

Outline how you will leave the site at the completion of the mining operation period such that there will be no ongoing adverse effects environmentally. Refer back to other sections of this application form where relevant.

## Important information – please read carefully

Obtaining permission for access to the mining site is the applicant's responsibility: gaining resource consent does not give right of access.

The applicant is to be aware that neighbours might be affected by noise or dust from the work. Please consult your local District Council about noise limits and related time restrictions. The granting of a consent does not allow for any objectionable noise or dust to travel beyond the site.



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