May 14, 2003

Fisheries and Oceans,
Habitat Management Division,
P.O. Box 1006,
Dartmouth, N.S.
B2Y 4A2

Attention: Mr. Phil Zamora
Re: White's Point Project

Dear Mr. Zamora,

Please find attached a completed Schedule VI – Application for Authorization for Works or Undertakings Affecting Fish Habitat – as requested.

Please advise if you require further details.

Yours truly,

Paul G. Buxton P. Eng.
Project Manager
SCHEDULE VI/ANNEXE VI
(Subsection 58(1)/paragraphe 58(1))

FISHERIES AND OCEANS FÉCHÉ ET OCÉANS

APPLICATION FOR AUTHORIZATION FOR WORKS OR UNDERTAKINGS AFFECTING FISH HABITAT
DEMANDE D'AUTHORISATION POUR DES OUVRAGES OU ENTREPRISES MODIFIANT L'HABITAT DU POISSON

Application No./N° de la demande

I, the undersigned, hereby request authorization to carry out the works or undertakings described on this application form. I understand that the approval of this application, if granted, is from the Minister of Fisheries and Oceans standpoint only and does not release me from my obligation to obtain permission from other concerned regulatory agencies.

If an authorization is granted as a result of this application, I hereby agree to carry out all activities relating to the project within the designated time frames and conditions specified in the authorization.

Applicant's Name (Please Print)  GLOBAL QUEST PRODUCTS

Applicant's Business Address  P.O. Box 2113
                                DIGBY N.S.
                                B0V 1A0

Applicant's Telephone No./N° de téléphone du requérant  902 245 2567

I solemnly declare that the information provided and facts set out in this application are true, complete and correct, and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath. This declaration applies to all material submitted as part of this application.

Applicant’s Signature (and corporate seal)

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Je soussigné, demande par les présentes l’autorisation d’exploiter les ouvrages ou entreprises décrits dans la formule. Je comprends que l’approbation de cette demande, le cas échéant, porte sur ce qui relève du ministre des Pêches et des Océans et ne me dispense pas d’obtenir la permission d’autres organismes réglementaires concernés.

Si la demande est approuvée, je consens par les présentes à exécuter tous les travaux relatifs à ce projet selon les modalités et dans le laps de temps prescrits dans l’autorisation.

Nom du requérant (lettres moulées)

Adresse d’affaires du requérant

Date  MAY 14, 2003

Je déclare solennellement que les renseignements fournis et les faits énoncés dans cette demande sont véridiques, complets et exacts, et je fais cette déclaration solennelle, la croyant consciencieusement vraie et sachant qu’elle a la même force et le même effet que si elle était faite sous serment. Cette déclaration s’applique à tout document qui est présenté dans le cadre de cette demande.

Signature du requérant (et sceau de la société)

Name of watercourse or waterbody (give coordinates)
Cours d’eau ou plan d’eau (donner les coordonnées)

This watercourse is a tributary of (where applicable)
Cours d’eau tributaire de (le cas échéant)

Nearest Community  LITTLE RIVER
County  DIGBY
Province  NOVA SCOTIA

84° 27' 55" N
66° 08' 45" W
APPLICATION FOR AUTHORIZATION FOR WORKS OR UNDERTAKINGS AFFECTING FISH HABITAT
DEMANDE D'AUTORISATION POUR DES OUVRAGES OU ENTREPRISES MODIFIANT L'HABITAT DU POISSON

<table>
<thead>
<tr>
<th>[ ] Bridge</th>
<th>[ ] Stream Realignment</th>
<th>[ ] Gravel Removal</th>
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<td>Channelization Canalisation</td>
<td>Obstruction Removal - Bypass</td>
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<td>[ ] Stream Utilization - Recreation</td>
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<td>Quai - Brise-lames</td>
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<td>[ ] Dam</td>
<td>Dewatering</td>
<td>Erosion Control</td>
<td>[ ] Other (Specify)</td>
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<td>Assèchement</td>
<td>Lutte contre l'érosion</td>
<td>Autres (préciser)</td>
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<td>[ ] Mining</td>
<td>[ ] Aquaculture</td>
<td>[ ] Marine Terminal and Survey</td>
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<td>Diversion</td>
<td>Activité minière</td>
<td>Flood Protection</td>
<td>Protection contre les inondations</td>
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<tr>
<td>Dérivation de cours d'eau</td>
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List of Agencies (Federal, Provincial or Municipal) contacted or notified, or who have initiated contact with the applicant.
Liste des organismes (fédéraux, provinciaux ou municipaux) contactés ou qui ont pris contact avec le requérant.

DEPARTMENT OF FISHERIES AND OCEANS

ENVIRONMENTAL ASSESSMENT AGENCY

NOVA SCOTIA DEPARTMENT OF ENVIRONMENT AND LABOUR

PROVIDE DETAILS OF PROPOSED ACTIVITY INCLUDING REASONS FOR THE PROJECT AND TYPES OF EQUIPMENT TO BE USED
DONNER DES PRÉCISIONS SUR LES TRAVAUX PROJETÉS, Y COMPRIS LA JUSTIFICATION DU PROJET ET LE TYPE D'ÉQUIPEMENT À UTILISER

SEE ATTACHED
**SCHEDULE VI—Continued /ANNEXE VI (suite)**  
(Subsection 58(1)/paragraphe 58(1))

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**APPLICATION FOR AUTHORIZATION FOR WORKS OR UNDERTAKINGS AFFECTING FISH HABITAT**  
**DEMANDE D'AUTORISATION POUR DES OUVRAGES OU ENTREPRISES MODIFIANT L'HABITAT DU POISSON**

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### SCHEDULE/CALENDRIER

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<td>2003</td>
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Approximate Timing of Work in shoreline, foreshore, tidal zone, or underwater areas.  
Période approximative des travaux sur le rivage et les estrans ainsi que dans les zones à marées et les zones sous-marines.

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<th>D/J</th>
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<td>08</td>
<td>04</td>
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</table>

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The following documents will assist in assessing your application and help expedite its approval. Please check which documents you have attached.

- Map indicating location of project  
  [✓] Carte indiquant l’emplacement du projet
- Engineering Specifications  
  [] Spécifications techniques
- Scale Drawings  
  [] Dessins à l’échelle
- Dimensional Drawings  
  [✓] Plans cotés
- Assessment of Existing Fish Habitat Characteristics  
  [✓] Évaluation des caractéristiques existantes de l’habitat du poisson
- Assessment of Potential Effects of Project on Fish Habitat  
  [✓] Évaluation des répercussions possibles sur l’habitat du poisson
- Measures Proposed to Offset Potential Damage to Fish Habitat  
  [] Mesures proposées pour compenser les éventuels dommages à l’habitat du poisson
- Other  
  [] Autres

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**ENVIRONMENTAL ASSESSMENT AND REVIEW PROCESS CONSIDERATIONS**  
**CONSIDÉRATIONS CONCERNANT LE PROCESSUS D'ÉVALUATION ET D'EXAMEN EN MATIÈRE D'ENVIRONNEMENT**

**NOTE:** All applications pursuant to section 35 of the *Fisheries Act* will be assessed in accordance with applicable federal environmental assessment requirements.

**REMARQUE:** Toute demande en vertu l'article 35 de la *Loi sur les pêches* sera soumise aux exigences fédérales applicables à l'évaluation environnementale.
COMPLETE ONLY IF USE OF EXPLOSIVES IS INTENDED
À REMPLIR SEULEMENT EN CAS D'UTILISATION D'EXPLOSIFS

EXPLOSIVES CONTRACTOR (IF DIFFERENT FROM APPLICANT)/RESPONSABLE DES EXPLOSIFS (SI AUTRE QUE LE REQUÉRANT)

Name/Nom:  
DYNO NOBEL LTD

Address/Adresse:  
6300 AUTEUIL, SUITE 410

BROSSARD, QUEBEC J4Z 3P2

Telephone No./N° de téléphone:  
902-865-8522

Anticipated Starting Date
Date prévue du début des travaux
01 06 2003

Completion Date
Date d'achèvement
01 06 2003

DETAILS OF EXPLOSIVES/PRÉCISIONS SUR LES EXPLOSIFS

Type (including trade name)
Genre (y compris la marque)  
Bulk Emulsion - DynoGold Lite 70/30

Weight and configuration (where applicable)
Poids et forme (le cas échéant)
Weight of explosive, and hole configuration, and hole depth will vary depending on location in the quarry.

Weight of individual shots and shot pattern where multiple charges are used
Poids des coups individuels et déploiement des coups, en cas de charges multiples
Weight of explosive per shot and shot pattern of multiple charges will vary depending on location in the quarry.

Detonation depth (in the rock; note also the depth of water, if applicable)
Profondeur de détonation (dans le roc; indiquer aussi la profondeur de l'eau, s'il y a lieu)
Detonation depth will vary depending on location in the quarry. No blasting is proposed in surface or marine waters.

Method of detonation
Méthode de détonation
Detonation would be initiated using Snaplets 25/500 ms and delayed with Snapline 42 ms. This could also vary depending on site location and required setback guidelines.
May 10, 2003

Whites Point Quarry Marine Terminal

**Project Location.**

The location of the proposed Whites Point Marine Terminal is shown on Maps 1 and 2 attached. The location of the marine terminal is 44 degrees 27’ 55” N and 66 degrees 08’ 45” W.

**Project Description.**

The overall dimensions of the marine terminal are shown on Preliminary Concept Drawings 1 and 2 attached. The duration of construction for the marine terminal is expected to be one year depending on weather conditions. Construction materials will consist of steel pipe piles, drilled and anchored to the basalt bedrock, and concrete pile caps for the berthing dolphins. The ship loader will be constructed of steel with similar pipe pile and concrete foundation systems. The conveyor system from shore will also be supported in a similar manner. Floating construction platforms are proposed to avoid disturbance to the nearshore and intertidal habitats. No dredging, filling or blasting is anticipated in marine waters during the construction process. Further, all on land blasting will be conducted in accordance with “Guidelines for the Use of Explosives In or Near Canadian Fisheries waters”.

**Assessment of Existing Fish Habitat Characteristics.**

Assessment of the existing fresh water course on the land area of the proposed quarry (Map 3 attached) by the Department of Fisheries and Oceans Habitat Management Division (DFO-HMD) in September 2002 concluded that this watercourse cannot be categorized as “Fish Habitat”.

Assessment of the nearshore fish habitat in the area of the proposed marine terminal indicates exposed basalt bedrock in the bottom area below chart datum. This habitat is known to support such species as lobster, starfish, sea urchins, sea cucumbers, and various fish including herring. The bottom habitat above chart datum in the lower and mid tidal zone is also basalt bedrock with a thick mat of rockweed. This habitat is known to support such species as periwinkles, blue mussels, hermit crabs, dog welks, and green crabs. The upper tidal zone and landward is primarily exposed basalt bedrock. Water depths in the area of the proposed marine terminal below chart datum, average high water mark and highest high tide water mark are shown on Drawings 1 and 2 attached.
Assessment of Potential Effects of Project on Fish Habitat.

The design of the conveyor support systems proposed within the intertidal zone will have minimal effect on the bottom habitat. Approximately nine pipe piles with a diameter of three feet each will be anchored within the intertidal zone. This would result in a permanent displacement of seven square feet of bottom area per three foot diameter pile. This would result in approximately sixty-three square feet of intertidal bottom habitat being permanently displaced.

Again, assuming three – three foot diameter pipe piles per support structure (conveyor, shiploader, and berthing dolphins) in nearshore waters, one hundred twenty-six square feet of bottom habitat would be effected. The total marine bottom habitat effected (intertidal and nearshore) is projected to be approximately one hundred ninety square feet.

Water quality in the intertidal and nearshore areas during construction will experience negligible alteration since no appreciable bottom sediments are present in the marine terminal construction area. Socket drilling for the pipe piles will be in the bedrock and within the pipe casing. This drilling process will produce basalt aggregate size material with little or no fines. Anchor drilling for the pipe piles will be done within the pile casing also and any fines resulting will be confined within the casing and removed with no discharge into the marine environment.

The proposed pipe pile construction technique within the water column will produce negligible effects on the existing tidal and nearshore water currents.

Measures Proposed to Offset Potential Damage to Fish Habitat.

The design and construction methods proposed for the marine terminal constitute the primary mitigation factors to offset potential damage to fish habitat. The proposed pipe pile support system for marine structures will result in negligible effects on bottom habitat when compared to other construction methods such as rock fill or other types of infill construction. As well, floating or jack-up construction platforms are proposed for the marine construction with an approximate one year construction period. This will minimize disturbance to the nearshore and intertidal bottom and water column habitats in space and time.

Although approximately one hundred ninety square feet of bottom habitat will be displaced, vertical surface habitat area in the water column would be created. The total vertical surface area available for potential marine growth would be much greater than the bottom habitat directly displaced. Nearshore and intertidal current flows would be virtually unimpeded. As a result of the above factors, no net loss of habitat and potentially a net increase and diversification of total habitat area could be realized.
Other.

Surface water runoff from land based operations will be channeled into a sediment retention pond/ponds. Discharges at the sediment retention pond overflow will be monitored on a weekly basis for pH and Total Suspended Solids and on a monthly basis for general chemistry. Discharges will be maintained in accordance with the Nova Scotia Department of Environment and Labour criteria with monthly summary reports furnished to the Department. The quantity and quality of site surface water being discharged into the receiving waters of the Bay of Fundy is expected to remain the same as presently occurring.