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APR 1 9 2000

ARCHAEOLOGY BRANCH

REPORT ON

AN ARCHAEOLOGICAL OVERVIEW
OF THE
NORTH COAST TIMBER SUPPLY AREA

Submitted to:

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MANAGEMENT SUMMARY

This report describes the results of an archaeological overview assessment (AOA) of the North Coast Timber Supply Area (TSA). The study was undertaken on behalf of the Ministry of Forests (North Coast District), with substantial assistance and input provided by the MoF, the North Coast licensees (Interfor, West Fraser Mills, and Pacific Cascade), several North Coast First Nations, the Archaeology Branch, and Heather Moon (H.L. Moon Heritage Consultant).

The objectives of the study were to summarize and evaluate existing information about archaeological sites in the study area and to develop a series of predictive models to help evaluate the need for archaeological assessments (impact assessments or reconnaissance) prior to land development. The project involved four main phases: (1) background research, including a review of previous archaeological, historical, and ethnographic reports and publications; (2) GIS analysis of terrain and known archaeological site characteristics; (3) development and implementation of the models to assess the archaeological site potential of the study area; and (4) recommendations for appropriate archaeological resource management strategies for the North Coast TSA.

The project is GIS-based, providing a mapped representation of areas of potential archaeological concern that can be viewed or plotted at various scales. Information derived from the study will help the Ministry of Forests and other government agencies, including First Nations, to integrate archaeological resource management with other land use planning decisions so that heritage sites may be preserved or managed according to the *British Columbia Heritage Conservation Act*, the *Forests Act*, the *Forest Practices* Code *Act*, and other relevant legislation and protocol agreements.

Predictive models were developed according to archaeological site type. Models were created for coastal and inland habitation sites, and culturally modified trees (CMTs). Modelling involved dividing the entire study area into 10 metre grids and predicting the archaeological site potential of each grid cell, based on a series of rules. Model results were tested by evaluating the degree to which they correctly predicted the locations of recorded archaeological sites. No field testing has been undertaken to date.

The coastal and inland habitation models correctly predicted the locations of 98% of recorded habitation sites. The CMT model predicted 80% of recorded CMT sites, and an additional 24 CMT sites (14%) were captured by the habitation models. Overall, 94% of recorded CMT sites were accounted for by one of the models.

The models ranked all lands according to three classes, with Class I lands predicted to have the greatest archaeological potential and Class III lands the lowest. Site potential can also be viewed as relative site density, in which the highest density and greatest variation of sites equates with highest site potential (Class I). Given the severe terrain of much of the North Coast, it was expected that moderate to high site potential ratings would cover a relatively small portion of the study area land mass. The models predict that 5.5% of the study area (107,666 hectares) falls within the Class I category (highest site potential), while 16.5% (323,537 hectares) fall within Class II lands. This suggests that the vast majority of archaeological sites in the North Coast TSA should occur in 22% of the land mass. A significant portion of this area is designated Class II for CMT sites only. Additional field data may reduce the area encompassed by these models,

The model results can be used to guide future archaeological resource management efforts. It is recommended that archaeological field assessments (either preliminary field reconnaissance [PFR] or archaeological impact assessment [AIA]) be undertaken in all Class I or Class II lands prior to any land-altering developments. A PFR may be adequate to assess Class II areas, or field observations may indicate that a more detailed impact assessment is warranted. No archaeological fieldwork is recommended for Class III lands, although it is cautioned that occasional sites may be present in those areas. If an archaeological site is encountered during development, it is recommended that all land-altering activity cease in the immediate vicinity of the site until the Archaeology Branch and local First Nations are contacted to develop a site management plan.

In addition to risk managing, the results of this AOA can be used as a planning tool, to help prioritize archaeological assessment requirements over a period of years. One value of mapped archaeological information is that multi-year development plans can be compared against the predictive model results to evaluate archaeological requirements over time, such as a five year plan. Areas of high archaeological sensitivity, First Nations concern, or operational urgency can be addressed well in advance, reducing the potential

for unexpected delays and costs. Further, advance knowledge of potential archaeological concerns may allow the Ministry or licensees to better incorporate archaeological management into the annual business planning or funding cycle. This report also presents a number of more general recommendations relating to the AOA and future refinements to the models.

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1.0 INTRODUCTION

Archaeological sites and related cultural heritage resources may be protected under the Heritage Conservation Act, and are recognized in the Forest Act and Forest Practices Code as valuable components of the forested environment. A range of forestry activities, from road and landing construction, through timber harvesting, to silviculture, involve land alterations that can damage archaeological sites. The first step in managing heritage resources is to identify known and potential site locations so that a strategy can be developed to facilitate their protection and management. Archaeological overview assessments (AOAs) help to address this problem by identifying known archaeological sites and predicting where unrecorded sites are most likely to exist. This information allows land managers to assess the risk of impacting archaeological sites during development.

Archaeological sites and other types of heritage resources are non-renewable resources that are important for a number of reasons. The majority of archaeological sites in British Columbia are of aboriginal origin, and many aboriginal people maintain strong spiritual, cultural, and social connections with these places. In addition, archaeological sites are becoming increasingly important as legal evidence, as illustrated in several recent court rulings. There is widespread public interest in the past, and archaeological sites can represent a unique educational resource. Through interpretive programming, some archaeological sites can provide a basis for understanding aboriginal cultures and the histories of B.C. First Nations.

Many types of cultural heritage sites in British Columbia are currently protected under legislative or policy measures, most notably the *Heritage Conservation Act* (HCA) and the *Forest Practices Code Act* (FPCA). The HCA provides automatic protection to all archaeological sites older than 1846, as well as to certain more recent sites, if they are deemed to have heritage value. Protection, in terms of the HCA, does not necessarily imply that a site cannot be altered, or even destroyed; rather, it means that any alteration to such sites requires a permit issued by the Archaeology Branch (Ministry of Small Business, Tourism and Culture) under the appropriate section of the HCA. Heritage inspection and investigation permits are issued under Section 14 of the Act, while site alteration permits are issued under Section 12.

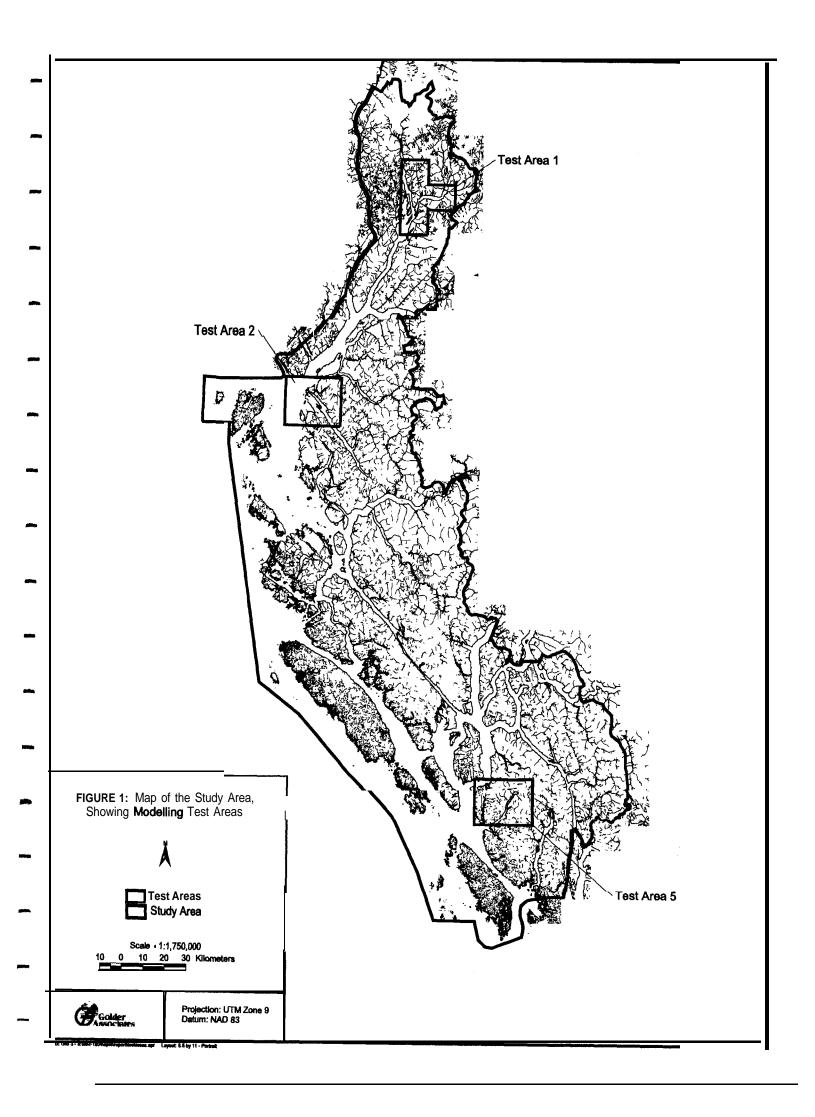
The HCA does not afford automatic protection to most types of sites that post-date 1846, or to spiritual or traditional land use sites where no physical evidence of human use or occupation exists. Certain site types, including burial places and rock art, are automatically protected under the HCA regardless of age. Protection for post-1846 sites not covered under the HCA may be provided under the Forest Act, Forest Practices Code or by agreement. Other government policies and protocol agreements, such as the Ministry of Forests/Ministry of Small Business, Tourism and Culture *Protocol Agreement on the Management of Cultural Heritage Resources* also afford a measure of protection to heritage sites.

The Ministry of Forests, North Coast District, retained Golder Associates Ltd. (Golder) to undertake an archaeological overview assessment of the North Coast TSA (Figure 1) to assist with the identification of potential conflicts between forestry operations and archaeological sites (Ministry of Forests Consulting and General Service Contract IN2000DNC-01). Although this study considered traditional land use information, where available, and included some First Nations participation, the project focus was on archaeological sites, and the study is not intended to fulfill Ministry consultation requirements or to serve as a traditional land use study.

1.1 Study Objectives

The objectives of the North Coast TSA Archaeological Overview Assessment were to:

- summarize available information about archaeological sites and aboriginal land use in the study area;
- develop predictive models based on known and inferred archaeological site characteristics on the North Coast;
- produce GIS coverages indicating areas of relative predicted archaeological site potential; and
- provide management recommendations for appropriate levels of archaeological investigation prior to land-altering developments in areas of predicted archaeological sensitivity.



Information derived from the study will help the Ministry of Forests, First Nations, and forestry companies to integrate archaeological resource management with other land-use planning requirements so that heritage sites may be preserved or otherwise managed according to legislation and protocols.

1.2 The Archaeological Overview Assessment (AOA) Process

Archaeological overview assessments are planning tools designed to assist resource managers in assessing the risk of adversely impacting archaeological sites when planning land developments. Through the use of "site sensitivity" (or "risk index") maps, an AOA defines areas that have relatively high, moderate or low predicted archaeological site potential, or sensitivity. The cultural resource sensitivity ratings are based on predictive models which, in turn, are derived from information about past use of the landscape and the characteristics of documented archaeological sites. The predictive models are not designed to pinpoint specific archaeological site locations, but rather to delineate areas where archaeological sites are most likely to be present, preserved and identifiable. Fieldwork in the form of impact assessments, reconnaissance surveys or inventories must be conducted in order to locate, record and evaluate actual sites.

An AOA is intended to be a resource management tool and its use should not preclude other resource management measures, including direct consultation with First Nations. Land-use managers can overlay development plans with the archaeological sensitivity maps to assess which proposed development areas are most likely to come into conflict with archaeological sites. The AOA report and site sensitivity maps can also be used to assess where archaeological field work (i.e., an archaeological impact assessment [AIA] or preliminary field reconnaissance [PFR]) is required to obtain more detailed information.

This AOA consists of several successive components, each of which is described below.

1.2.1 Data Acquisition

An AOA begins with the collection and synthesis of relevant archaeological, historical, environmental, and other information about the study area. Because most archaeological sites in the province are of aboriginal origin, early involvement of First Nations communities is important. Shortly after contract award, contact was initiated with First

Nations whose traditional territories encompass the study area. Several sources of information regarding First Nations' past and present uses of the North Coast were consulted for this study, including direct consultation, ethnographies, historic journals, published and unpublished reports, articles, and monographs, maps, and archival documents. Most of the involved First Nations communities were visited in mid-January 2000 to introduce the project and to discuss heritage issues and concerns. Specific archaeological and traditional land use information was collected, where possible.

In addition to cultural information, data regarding the environment of the study area must also be reviewed. Sources of terrain, stream, climate and vegetation information gathered for this study include Terrain Resources Information Maps (TRIM), biogeoclimatic maps, and forest cover data.

The data acquisition phase also involves the review of known archaeological site data for the study area. Recorded archaeological sites are valuable sources of information because they relate specific cultural activities to particular places on the landscape. For example, most (though not all) recorded aboriginal village sites recorded on the Central and North Coast occur in areas of moderate terrain, near a source of fresh water and within a short distance of the ocean. This type of information is essential to the predictive model building phase of an AOA. A database of recorded archaeological sites, taken from the Provincial Heritage Register Database (PHRD), scanned archaeological site sketch maps, and a GIS point coverage of archaeological site locations were provided in digital format by the Archaeology Branch.

The Ministry of Forests provided several sources of data, including digital TRIM and forest cover mapping, and paper maps showing predicted archaeological potential polygons from a previous AOA project completed in the North Coast District (Commonwealth Historic Resource Management Ltd. and Millennia Research 1996).

1.2.2 Data Preparation and Predictive Model Development

The second component of the AOA involves preparing and analyzing all data sources. Digital data were prepared in a GIS, using ARC/INFO and ArcView software. Data preparation involved developing a digital elevation model (DEM), calculating elevations and slope classes, buffering hydrology, creating polygons representing waterbodies, and

clipping the data to separate water from land. The large size of the study area dictated that the data be divided into subsets to allow for efficient processing. Five geographically-defined sections were created, and data preparation was completed section-by-section.

The GIS analyses provide the base data for developing computer models to predict archaeological site potential. The objective of modelling is to develop a set of criteria, or rules, to describe places where archaeological sites are most likely to occur, and to apply those rules across the study area. In the absence of extensive probabilistic archaeological inventory data, modelling usually relies on existing archaeological site data and the collective expertise of the study team and First Nations participants. Since different kinds of sites (e.g. culturally modified trees, shell middens, and fish traps) represent different cultural activities, it is important to develop discrete modelling rules for specific site types, rather than a single general model that is intended to account for all sites.

For the North Coast TSA, predictive models have been developed for coastal and inland habitations (including villages, shell middens, and resource camps), and culturally modified trees (CMTs). Models produced for the Central Coast LRMP AOA for trails, pictographs and petroglyphs were ineffective due to data limitations, and consequently they were not implemented in this study. However, the Central Coast study showed that many petroglyph and pictograph sites were accounted for by the coastal habitation model, suggesting a correlation between habitation and rock art site locations. Detailed descriptions of each model are provided in Section 8 below.

The archaeological and GIS teams worked together to create digital coverages (computer-generated layers) of the study area that contain information relevant to model development.

1.2.3 Archaeological Site Sensitivity Mapping and Reporting

The third phase of the AOA involves presentation of the study results in a way that is useful to land-use managers. One presentation tool is the archaeological sensitivity map, or predicted site potential map. An archaeological sensitivity map graphically illustrates areas considered to have relatively high, moderate or low potential for certain archaeological site types to be both present and preserved. Relative potential rankings

are used, with the acknowledgment that all areas have some potential for archaeological sites, but that certain areas have greater constraints against human use or archaeological site preservation.

For the North Coast AOA, areas that meet the most stringent criteria of a predictive model were given a Class I designation and are considered to have the highest potential for the presence of that specific archaeological site type. Areas assigned a Class II designation are those that could support the same site type, but do not contain the optimal conditions for doing so. Consequently, these areas are considered to have moderate site potential. Class II lands are typically adjacent to Class I lands, but further from prime resource locations or from preferred landscape features. Class III lands are considered to have relatively low archaeological site potential due to severe constraints on human occupation and use, or on archaeological site preservation. Recommendations are provided for adequate levels of archaeological assessment for each land class designation (see Section 11).

Archaeological potential maps generated for the North Coast TSA AOA should be used with forestry and other development plans to identify potential conflicts with predicted archaeologically sensitive areas. The potential maps were produced at a scale of 1:20,000 and submitted as plot files and GIS coverages to the North Coast Forest District. The model results may be stitched into a contiguous coverage for the study area or clipped to correspond with the TRIM grid or other administrative boundaries. An overview-scale plot file was also provided to the Ministry of Forests.

1.3 First Nations Participation in the North Coast TSA Archaeological Overview

At the outset of this study, the First Nations with expressed hereditary interests in the study area were contacted and invited to participate. Five First Nations groups were identified by the Ministry of Forests as having interests in the study area, based on Statements of Intent and other information sources. These First Nations are the;

- Nisga'a First Nation
- Tsimshian First Nation
- Gitanyow First Nation
- Haisla First Nation, and

Heiltsuk First Nation.

On the direction of the Ministry of Forests, the Gitanyow First Nation was not contacted, because only a small portion of their identified traditional territory lies within the North Coast TSA, all of which consists of ice fields with no potential for forestry operations.

Given funding and time constraints, face-to-face consultation with First Nations in their home communities was limited. Consequently, First Nations representatives were contacted by telephone, fax and courier to discuss the project goals, progress, and plans for implementing the study results.

From January 17 to January 21, 2000, representatives of Golder Associates and the North Coast Forest District visited with 6 of the First Nations whose territories encompass the northern portions of the study area. These Nations included the Kitselas, Kitsumkalum, Kitkatla, Metlakatla, Kitamaat, and Lax-Kw'Alaams. A meeting was also held with the Tsimshian Tribal Council. A brief description of the meetings is included below.

A meeting was held with Mr. Bruce Watkinson, Resource Officer for the Kitkatla First Nation, on January 17, 2000. The overall scope and schedule of the project was discussed, and Mr. Watkinson provided some general information regarding known resource use areas within Kitkatla territory. These areas were marked on the relevant 1:50,000 scale NTS maps. Mr. Watkinson accepted an offer to review the results of modeling for test areas.

Mr. Bob Hill, of the Tsimshian Tribal Council also met with the study team on January 17, 2000. Mr. Hill suggested that we continue to contact individual communities directly and offered to assist where possible.

On January 18, 2000, a meeting was held with Mr. Alec Bolton, Chief Negotiator for the Kitsumkalum First Nation. Mr. Bolton stated that Mr. Alan Bolton, GIS technician and TUS worker for the band, had left some information with him but that we should contact Alan Bolton at a later date to get copies of TUS maps and other relevant information. Some information regarding landscape use patterns was shared by Mr. Bolton.

Mr. Morris Mason of the Kitselas First Nation met with the study team on the afternoon of January 18, 2000. The GIS and TUS workers were out of the office but Mr. Mason agreed to review test maps and provide input into the AOA via the submission of relevant TUS knowledge.

At a meeting on January 19 2000, Mr. Harold Leighton and Mr. Marcel Pepin of the Metlakatla First Nation discussed the overall scope and timing of the project as well as some of their concerns regarding information confidentiality. It was agreed that, time permitting, the Metlakatla GIS and TUS team would review maps of model results for test areas and provide input.

A meeting with the Kitamaat First Nation was held on January 20, 2000. The Kitimaat Nation was represented by Mr. Amie Smith, Executive Director of the Kitamaat Village Council, Mr. Morris Amos, Resource Management Director, and Mr. Whitney Lukuku, Forester and member of the Resource Management Team. Following a discussion of the project purpose and scope, it was concluded that, at this time the Kitamaat do not have staff available to participate directly in the project. Funding of \$2,000 to \$3,000 would be required if the MoF wished to have Kitamaat participate fully in the project. It was decided that the Kitamaat would be interested in seeing the test maps but, if detailed analysis was requested, they would have to bill the project for their time. It was agreed that the test maps would be submitted as soon as possible, with no less than two weeks allowed for review.

On Friday January 21, 2000, a meeting was held with all nine hereditary Chiefs of the Lax-Kw'Alaams First Nation, as well as and Chris Turner (TUS and GIS Technician), and Susan Marsden, curator of the Prince Rupert Museum and contributor to the TUS. James Bryant, spokesperson for the hereditary Chiefs, chaired the meeting. In general, the Chiefs determined that the scope and timeline of the project was inadequate. There was concern expressed regarding the level of consultation with the Lax-Kw'Alaams. Mr. Turner indicated that it was his opinion that the Chiefs should attempt to have the MoF withdraw the project contract and renegotiate a more thorough and lengthy study. The meeting concluded with the Chiefs decision to meet with the District Manager to discuss the scope of the project. That meeting would be attended by Mr. Bryant, Ms. Marsden and Mr. Turner. Another Chief noted that the project should provide employment for members of the Lax-Kw'Alaams people.

Due to a scheduling misunderstanding, the Golder and MoF representatives missed a meeting with Ben Haisimsque of the Nisga'a Nation. Later telephone conversations resulted in an agreement to send a package complete with project description and study area map for Mr. Haisimsque to present to the relevant committee.

The study team was unable to arrange a meeting with representatives of the Gitga'at (Hartley Bay) Nation while in Prince Rupert, however, Golder met with Chief Councillor Pat Sterritt on January 27, 2000 in Vancouver. Chief Sterritt stated that the Gitga'at would like to participate in the project and requested that we send a letter detailing what level of information would best suit the needs of the project. Upon her return to Hartley Bay, Chief Sterritt will **speak** with the Gitga'at forester and, if time permits, arrange to send maps to Golder. At minimum, the Gitga'at were interested in reviewing the test maps.

A meeting with representatives of the Heiltsuk First Nation was held on February 15, 2000 in Waglisla, BC. During this meeting it was noted that the Heiltsuk had yet to review the Central Coast AOA plot files and maps. The Heiltsuk stated they were particularly concerned about the CMT model, as, in the case of the Central Coast AOA, they were unsure whether the CMT data collected in the Heiltsuk AOA was being used in the models for the North Coast. There was some concern that, since the North Coast AOA was building upon the models used in the Central Coast AOA, that the Central Coast maps should be reviewed first. To this end, Golder's cultural sciences and GIS staff worked with the Heiltsuk GIS team to access and print the Central Coast AOA plot files. A test map was printed and the Heiltsuk team stated they would like to have time to review the Central Coast maps before making any statements about whether or not they supported the ongoing North Coast AOA. However, the Heiltsuk requested a copy of the North Coast AOA test map and draft report for review.

On February 18, 2000, Golder met with Percy Starr and Ben Robinson of the Kitasoo First Nation. The meeting took place in Vancouver at the downtown offices of the Kitasoo Tribal Council. After a brief introduction, the Kitasoo representatives stated that they would like Golder to forward a letter to the Kitasoo Chief and Council explaining the project in lay terms and clearly outlining what kind of information would be useful for an AOA. The Kitasoo also requested that the letter include the project deadline and a description of how the AOA maps would be used. Mr. Starr and Mr. Robinson stated

they would also like to have the opportunity to review the draft map and report but would also have to present it to the rest of the community before providing comments. A letter containing the requested information was sent from Golder to the Kitasoo Band Council on February 24, 2000.

Due to scheduling difficulties, many of the meetings with First Nations took place much later in the project schedule than would have been desired. This made it impossible for most of the communities to review and respond to the draft report and overview map in time for their input to be incorporated into this report. However, draft and final copies of this report and the accompanying 1:250,000 scale overview map were provided to each First Nation in the study area, and community input can be accommodated through the MoF consultation process. As this AOA is an evolving planning tool, additional opportunities for First Nations involvement, including participation in field assessments, should be available in the future.

1.4 Report Structure

This report is organized in general accordance with Archaeology Branch guidelines for archaeological overview assessments (Apland and Kenny 1998). This introductory section has explained the AOA process and the context and objectives of the project. The second section describes a number of forestry development types that could potentially impact archaeological sites. Section 3 summarizes the physical setting of the study area, with discussions about the climate, vegetation, and physiography, both today and in the past. Section 4 briefly describes the traditional cultures of the First Nations of the study area, based on published information. Section 5 deals with the culture history sequence of the North Coast, and describes the main archaeological sites types and their expected spatial distribution across the landscape, as presently understood. Section 5 also presents a review of previous archaeological research in the study area. Section 6 presents the results of GIS analyses of the terrain and recorded sites in the study area. Sections 7 through 9 explain the methods and results of the predictive modelling component of the study, including a description of the data, the individual models, and the variables used to develop them. Section 10 briefly discusses the study results, and Section 11 provides archaeological resource management recommendations linked to the predictive modelling results. Appendices include a glossary of technical terms (Appendix 1), and attribute data for the recorded archaeological sites in the study area (Appendix 2).

2.0 POTENTIAL IMPACTS TO ARCHAEOLOGICAL SITES

Many forestry-related activities have the potential to damage archaeological resources, particularly culturally modified trees (CMTs). Direct impacts may include, but are not limited to, artifact breakage or displacement, destruction of features, and disturbance of stratified deposits. Examples of indirect impact include increased public access (which may lead to site looting or vandalism, or more gradual impacts from heavy use of an area) and possible increased rate of natural degradation (e.g., increased erosion following vegetation removal).

One goal of this study is to help identify archaeologically-sensitive areas so proper management measures can be implemented prior to ground disturbance. The following sections summarize some of the forest development activities that may affect the integrity of archaeological sites, based in part on discussions by Eldridge (1990) and Mackie and Eldridge (1992).

2.1 Falling

Different logging methods can create varying levels of disturbance to archaeological sites, although logging itself is often less destructive than associated developments such as road building and landing construction. Since all logging methods will destroy culturally modified trees, this discussion is most pertinent to buried or surficial archaeological deposits and features.

Hand falling has relatively little effect on buried archaeological deposits, and it may indeed be less destructive than windfalls, which can turn up sediments containing archaeological materials. Heavy equipment used in mechanical falling, in contrast, may severely impact archaeological sites or features lying on or near the surface.

2.2 Yarding

With the exception of helicopter logging, yarding activities have greater potential to impact archaeological sites than does falling. A skyline system or standard high-lead yarding may reduce the potential for damage to archaeological sites by lifting logs at least partially clear of the ground. The use of a carriage to increase clearance is beneficial, and a high-lead system is generally preferable to a low-lead. However, the use of heavy

equipment at landing areas associated with this yarding technique can significantly disturb archaeological sites. Grapple yarding can add an additional source of ground disturbance through the use of a backspar to traverse areas without roads.

Skidders can cause severe ground disturbance, and even horse skidding can cause some surficial damage to archaeological sites. However, this problem — and those associated with many other yarding techniques — can be mitigated by restricting operations in archaeologically-sensitive areas to winter, when the ground is frozen and preferably covered with snow. Moreover, horse skidding may offer more flexibility in avoiding visible archaeological features.

2.3 Access Roads

Logging roads, and particularly mainlines, pose one of the most serious threats to archaeological sites because they often cover large areas, and they tend to follow subdued terrain where possible, which often has archaeological site potential. Many logging roads undoubtedly follow aboriginal trails and some have destroyed archaeological sites located along the trails. Road building severely disturbs the ground, and can completely destroy archaeological sites. Eldridge (1989) showed that road locations tend to correspond more closely with CMT locations than a random sample from nearby areas, and recent field assessments in the Fraser Canyon support this assertion (Golder Associates 1998). This suggests that ease of access may have been an important factor in aboriginal forest utilization. A potential indirect impact of road construction is increased public access to archaeological sites. Site vandalism is a serious concern in many regions of British Columbia, and it is an issue of great importance to many First Nations.

2.4 Associated Developments

Ancillary developments, such as log landings and sorting grounds can impact archaeological sites through terrain levelling and heavy equipment traffic. Artifact displacement and breakage are common types of damage associated with these developments Coastal log dumps often coincide with shell midden or aboriginal village locations, and ground disturbance can impact the upper levels of cultural deposits.

2.5 Silviculture

Certain reforestation techniques can be extremely damaging to archaeological deposits. Slash piling using bulldozers and skidders, stump removal, and scarification can severely disturb the ground. Tree planting, thinning, and pruning, in contrast, should have relatively little effect on archaeological sites, as long as skidding is not involved.

3.0 PHYSICAL SETTING

3.1 Modern Environment

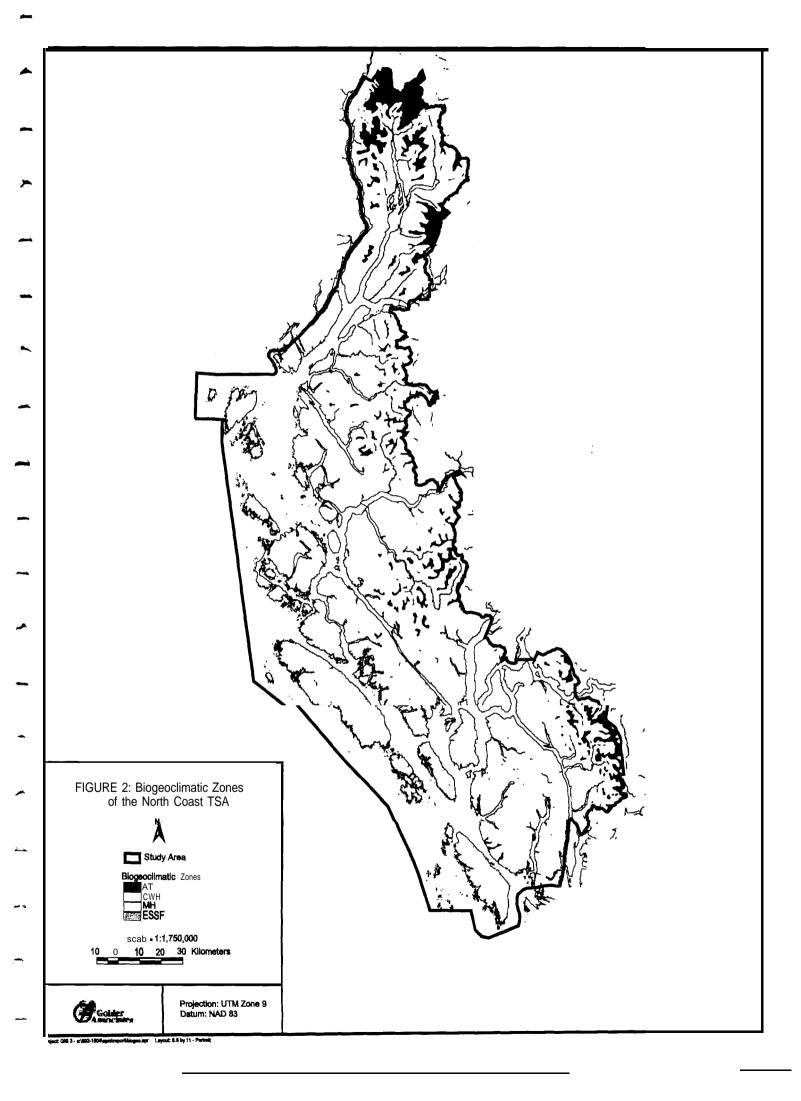
The North Coast TSA covers an area of approximately 1.95 million hectares, from Meyers Passage (near Klemtu) north to Stewart. Much of the landscape along the coast is rugged, featuring narrow fjords and channels that rise steeply to glacier-covered mountains. Access to inland portions of the TSA from the coast is limited. Several large islands, including Princess Royal, Banks, Pitt and Porcher, are within in the TSA, as are the lower reaches of the Nass and Skeena rivers.

3.1.1 Biogeoclimatic Zones

Most of the TSA falls within various subzones of the Coastal Western Hemlock (CWH) biogeoclimatic zone, with the Mountain Hemlock (MH) zone occurring at higher elevations, and Alpine Tundra (AT) prevailing above the tree line. A very minor amount of the Engelmann Spruce-Subalpine Fir (ESSF) is also present. Figure 2 shows the biogeoclimatic zones of the North Coast TSA.

CWH Zone

The CWH zone covers low to middle elevations throughout the North Coast, extending from sea-level to about 400-450 metres a.s.l. Pojar et al. (1991) provide a thorough description of the plant and animal species characteristic of the Coastal Western Hemlock zone. The forests of the CWH zone are dominated by Western hemlock and Pacific silver (or amabilis) fir, but Western redcedar and Yellow cedar are often abundant. The understory in the CWH zone is generally lush, and it contains a number of food species important to First Nations' traditional diets.



Economically-important mammal species include marten, mule deer, black bear, grouse, mountain goat, and various species of waterfowl. Low-lying areas near tidal inlets are inhabited by sea mammals such as harbour seals and Steller sea lions. Throughout the CWH zone, streams and rivers provide spawning habitat for salmon and other fish, such as the economically important eulachon. Intertidal invertebrates are diverse, and include economically significant species such as mussel, cockle, abalone, limpets, butter clam, little-neck clam, octopus and sea cucumber.

Mountain Hemlock (MH) Zone

The Mountain Hemlock (MH) biogeoclimatic zone is characteristic of montane slopes and subalpine areas of the Coast Mountains above the CWH zone, at elevations between about 400 and 1,100 metres (Allen Banner-man, pers. comm. 2000). The characteristics of this zone are surmnarized in Pojar et al. (1991).

Dominant tree species in the MH zone include mountain hemlock, Western hemlock and amabilis fir, with redcedar, yellow cedar and subalpine fir found in smaller proportions. Common shrubs in the MH zone include Alaskan and oval-leafed blueberry, black huckleberry, salmonberry, bunchberry and lady fem. Due to the long period of snowpack, the diversity of animal species is low. Notable mammals include snowshoe hare, black bear, mule deer, Roosevelt elk and mountain goat.

Alpine Tundra (AT) Zone

The Alpine Tundra (AT) biogeoclimatic zone, which characterizes the highest elevations of the mountains of the North Coast, consists of treeless meadows, windswept ridges, snowfields and icefields in high elevation mountainous terrain (Pojar and Stewart 1991). Harsh conditions prevail in the AT zone and much of this area lacks vegetation, being typically covered with rock, ice and snow.

Engelmann Spruce-Subalpine Fir (ESSF) Zone

The Engelmann Spruce-Subalpine Fir zone lies below the Alpine Tundra on the eastern side of the Coast Mountains. Abundant plant and animal resources made the ESSF zone important to aboriginal economies. Tiger lily, avalanche lily, cow parsnip, and saskatoon berry are some of the ESSF zone plant species used by First Nations groups for food, and

common juniper, stinging nettle and other plants were used in traditional medicines. The extent of ESSF zone in the North Coast TSA is almost negligible.

3.2 Palaeoenvironment

Four aspects of the palaeoenvironment are particularly relevant to archaeological site distribution: (1) deglaciation, which dictated when the environment was capable of sustaining human settlement; (2) sea level changes after deglaciation, which influenced the locations of ancient shoreline sites; (3) changes in the tree line and associated resources, which may have affected high elevation site locations; and (4) the establishment of cedar forests, which contributed to the development of the sophisticated wood working tradition of Northwest Coast First Nations. Each of these factors is discussed below in terms of its potential influence on archaeological site distribution.

3.2.1 Deglaciation

Like most of British Columbia, the North Coast was covered by ice during the glacial maximum of the Pleistocene approximately 16,000 years ago. According to Clague et al. (1982), the parts of the coastline were buried beneath as much as 2,000 m of ice, but glaciers on the outer coast were not as thick (Clague 1985). It is generally accepted that the outer coast was essentially ice free by about 13,000 years ago, although glaciers remained in the fjords and valleys. Based on these data, it can be inferred that the coastal fringe and marine islands could have been occupied by about 13,000 years ago.

3.2.2 Relative Sea Level

An understanding of variations in relative sea level over time is important for interpreting early human occupation of the coast. The initial settlement of the New World may have followed a southward route along the edge of the northwest coast, and there is potential for very early sites in this region. If early coastal cultures relied on the sea for subsistence and transportation, settlement locations likely would have been concentrated along the shoreline (Easton and Moore 1991). The following discussion examines relative sea levels since the end of the Pleistocene, and the implications for archaeological site distribution.

The term "relative sea level" is used to distinguish between localized shoreline conditions and global custatic sea levels. Relative sea level reflects a combination of actual sea level changes and the effect of isostatic rebound (the rising of land that was previously depressed by the weight of ice). Tectonic plate movement is also a minor factor, but it is not considered significant within the time frame discussed here. Because ice build up was not uniform along the coast, isostatic rebound may have been the dominant factor in regional variations in relative sea level. The magnitude of rebound was greater in the fjords and valleys, where the thickness of glacial ice was greatest. This means that archaeological sites on ancient beaches or sea terraces generally would be found at higher elevations in the fjords than on the coast, assuming similar ages.

Relative sea levels have varied significantly since deglaciation at the end of the Pleistocene (ca. 13,000-10,000 B.P. [before present]), but data specific to the North Coast are sparse and localized (Archer 1998). In general, relative sea levels were lower than today during the late Pleistocene, due to the capture of water in glaciers, and some coastal areas that are currently submerged would have been exposed at that time (Josenhans et al. 1995). Relative sea levels were significantly higher during the period of deglaciation between about 15,000 and 10,000 years ago on the North Coast (Blaise et al. 1990), although the maximum level reached during this time is not known.

Archer (1998) has proposed a sea level curve for the Prince Rupert area, based on a small sample of dated raised beach deposits and archaeological evidence. He proposes that the basic post-glacial sea level pattern for the area is clear, but that some minor questions remain unresolved (e.g., relative sea level between 8,000 and 5,000 years ago). A dated beach deposit at Port Simpson shows that $\pm 12,400$ years ago the sea level was 50 m higher than today. Between $\pm 12,400$ and $\pm 12,100$, the sea level dropped rapidly to about 13 m above present (a drop of 37 m in only about 300 years). Over the next 3,000 years or so, sea levels dropped slowly, to a level about 5 m above present by $\pm 8,000$ years ago. No data are available for the North Coast between $\pm 8,000$ and $\pm 5,000$ years ago, but elsewhere on the coast, the sea level dropped to slightly below modern levels (Archer 1998). If Archer's interpretations are correct, then early sites in the Prince Rupert area could be found on sea terraces or raised beaches up to about 50 m above current sea level.

In contrast, marine deposits radiocarbon dated to about 10,500 B.P. at the heads of fjords in the Kitimat Trough are 200 metres above present sea level (Clague 1985). This

Golder Associates

probably indicates significantly greater isostatic rebound in the Kitimat area than in Port Simpson, due to heavier Pleistocene ice loading. Presumably, post-glacial beaches and terraces older than ±10,500 years in the Kitimat Trough would be at even higher elevations. These data suggest that late-Pleistocene and early-Holocene archaeological sites, if present, will tend to be at higher elevations in coastal river valleys and fjords than on the coast. For the North Coast TSA, palaeoshorelines may be present from just above the present sea-level, up to about 200 metres a.s.l.

3.2.3 Tree Line

Throughout the Holocene, forests expanded and contracted in response to climate shifts. During cooler periods, the tree line would have been lower than today, and during warmer climatic episodes the tree line would have been higher than today. Archaeological sites associated with subalpine parklands at the upper forest fringe, if present, may now be in the forest or in the alpine.

3.2.4 Establishment of Cedar Forests

Western redcedar and, to a lesser extent, yellow cedar, have long been the primary materials used by the aboriginal people of the Northwest Coast to build houses and to make canoes, boxes, basketry, clothing and a host of other utilitarian and ceremonial items. However, the establishment of western redcedar and yellow cedar on the North Coast appears to be relatively recent, in archaeological terms. Hebda and Mathewes (1984) used palaeobotanical data to document the expansion of western redcedar in coastal forests between approximately 6,000 and 2,500 B.P. Their data indicate that cedar gradually expanded into the North Coast beginning $\pm 6,000$ years ago, but it did not become a major species in the Prince Rupert region until about after 4,000 years ago.

These findings correspond with early archaeological evidence for the development of woodworking technology among northwest coast aboriginal cultures, which suggests that specialized woodworking tools, such as adzes, were not common until about 3,500 years B.P. on the North Coast (Matson and Coupland 1995).

4.0 FIRST NATIONS OF THE NORTH COAST

4.1 Introduction

The following section provides a brief summary of the First Nations cultures on the North Coast. This review is not exhaustive, and it emphasizes aspects of the aboriginal cultural systems that are most likely to leave physical traces that can be identified archaeologically. This summary may not necessarily express the views of the First Nations people it describes. Many of the linguistic and cultural links described below are anthropological classifications, and they do not necessarily reflect how contemporary First Nations would define their past.

It is important to note that the use of the past tense to describe traditional cultural practices in the following sections reflects the use of ethnographic and historic sources and is not intended to imply that these activities no longer occur. Many of the traditions described in this report remain integral to the cultures of First Nations throughout the North Coast area.

4.2 First Nations Communities in the North Coast TSA

Based on First Nations' Statements of Intent submitted to the B.C. Treaty Commission and additional information provided by the Ministry of Forests, the North Coast TSA falls within the traditional lands of the Tsimshian, Nisga'a, Haisla, Heiltsuk, and Gitanyow Nations. Aboriginal communities within the TSA include the Tsimshian villages of Lax-Kw'alaams, Metlatkatla, Kitkatla, and Hartley Bay, as well as the Nisga'a villages of Kincolith and Greenville. The Kitasoo village of Klemtu is just south of the TSA boundary. Some aspects of the cultures of these First Nations are summarized below under the generalized headings of Tsimshian (Coast Tsimshian, Southern Tsimshian and Nisga'a), Haisla, and Heiltsuk. On the direction of the North Coast Forest District, the Gitanyow were not included in this study because, according to the Ministry of Forests, no operable forest areas of the North Coast TSA fall within Gitanyow Statement of Intent lands.

4.2.1 Tsimshian

Significant linguistic and cultural variation is evident among the First Nations of the North Coast, but general similarities exist, particularly in terms of socioeconomic organization and material culture. For this reason salient aspects of Coast Tsimshian, Southern Tsimshian and Nisga'a culture are discussed collectively under the general heading of "Tsimshian". After a brief introduction to the local groups that comprise these three broader cultural groupings, aspects of Tsimshian culture are summarized,.

4.2.1.1 Coast Tsimshian

The Coast Tsimshian are comprised of ten local groups that historically had winter villages on the lower reach of the Skeena River, below Kitselas Canyon. These local groups were known as the Gitwilgyot, Gitzaklalth (Gidzalaal), Gitsees (Git'tsiis), Ginakangeek (Ginaxangiik), Ginadoiks (Gitandoyks), Gitandau (Git'andoo), Gispakloats (Gispaxloats), Gilutsau, Gitlan, and Gitwilkseba. Prior to the arrival of Europeans in the region, these groups expanded coastward and established winter villages on the islands of Venn (Metlakatla) Pass. During the summer, the local groups returned to their territories on the Skeena to participate in the salmon fishery (Halpin and Seguin 1990).

Other groups that are considered Coast Tsimshian include the Kitselas, who now live in two villages at Kitselas Canyon on the Skeena River, and the Kitsumkalum, who lived below the Kitselas at the mouth of the Kitsumkalum River (Halpin and Seguin 1990) and now live near Terrace. These two groups are also members of the Tsimshian Tribal Council.

4.2.1.2 Southern Tsimshian

The Southern Tsimshian are comprised of three local groups, the Kitasoo, Kitkiata (also known as the Gitga'at or Hartley Bay Band), and the Kitkatla (Halpin and Seguin 1990). The original village of Kitkiata was abandoned in the late 1800s as people left to join Reverend William Duncan's mission village of Metlakatla (and later New Metlakatla in Alaska). The present village of Kitkiata is located at a new site (Hartley Bay) and is inhabited by the descendents of those who did not follow Duncan to his New Metlakatla in Alaska (Halpin and Seguin 1990).

4.2.1.3 Nisga'a

According to Halpin and Seguin (1990), the Nisga'a living along the lower reach of the Nass River were divided into two groups — the Gitkateen and the Gitgigenik — and the Nisga'a of the upper Nass were divided into two more groups — the Gitwunksithk and the Gitlakdamiks. These latter two groups were also known as the kitanwili•'ks, "the people staying temporarily". This name was in reference to their downstream migration during the annual eulachon fishery (Halpin and Seguin 1990). Today, the main Nisga'a communities are known as Gingolx (Kincolith), Lakalzap (Greenville), Gitwinsilkw (Canyon City), and Gitlakdamiks (New Aiyansh).

4.2.1.4 Tsimshian Culture

Introduction

The following is a summary of Tsimshian and Nisga'a ethnographic information largely derived from Halpin and Seguin (1990) and the Kitasoo/Xaixais First Nations Resource Mapping Project (1995). Other materials that were consulted include the Marius Bar-beau and William Beynon microfilm collection currently stored at the British Columbia Archives and Records Service in Victoria and the ethnographic review provided in the North Coast Forest District Cultural Heritage Mapping Project (Commonwealth Historic Resource Management Ltd. and Millennia Research 1996). For more detailed information on Tsimshian language, kinship, ceremony and other cultural aspects consult Halpin and Seguin (1990), Garfield (1939, 1966, 1984).

Language

The Coast Tsimshian, Southern Tsimshian and Nisga'a each spoke their own distinct languages. While the Coast Tsimshian and Southern Tsimshian languages were common in many respects and clearly related, it is not clear if they were mutually intelligible. The Nisga'a spoke a language that was different from their coastal neighbours, but they also spoke Coast Tsimshian to facilitate communication with their Coast Tsimshian neighbours to the west (Halpin and Seguin 1990).

Settlement Pattern and Subsistence System

Among the Tsimshian, winter villages were typically inhabited year-round by at least a portion of the community. Their locations were generally sheltered from strong winter winds and somewhat protected from attack. Village sites were also usually near a source of fresh water and had plant and food resources nearby (Halpin and Seguin 1990).

Throughout the year, segments of the village population would travel to temporary or semi-permanent resource camps to collect seasonal resources. For example, at end of winter, before spring break up (February-April), the annual eulachon fishery took place at fishing camps on the Nass River.

In the late winter or early spring, herring roe was gathered on grass, kelp, or submerged branches. In addition, the inner bark of redcedar, used for a variety of purposes, was gathered during this time, as was the edible cambium of several tree species.

In the early spring (May), the Coast and Southern Tsimshian gathered and dried seaweed for approximately one month at special seaweed camps along the coast. The Nisga'a obtained seaweed, which was not locally available to them, through trade with the coastal groups. While at these camps, men fished for halibut and women processed the meat. Men would also troll for the first salmon that would appear in the tidal waters during early spring. It has been suggested that for the Coastal Tsimshian peoples, halibut was second only to salmon in terms of dietary importance (Beynon 1929-30 in Barbeau Collection [B-F-168.2]).

In early summer the people moved to traditional fishing sites along the rivers **to** fish primarily for the five species of salmon. Women would also use the summer months to harvest a wide variety of berries (including salmonberries, wild crabapples, and high bush cranberries in autumn), roots, and shoots.

Much of the early autumn was spent smoke drying and preserving salmon. Following the preservation of winter foods, small groups of hunters would proceed to their hunting territories in search of sea and land mammals. Game taken by the Tsimshian included deer, elk seal, sea lion, sea otter, mountain goat, mountain sheep, bear, marmot, porcupine, mountain lion, hare, lynx, swans, geese, ducks, and other waterfowl (Halpin

and Seguin 1990). Due to their inland setting, the Nisga'a had a greater emphasis on land mammal hunting.

Winter was the season of ceremony and rest. Potlatches and other major ceremonies would take place in the winter villages. While the villagers depended upon stored salmon and other preserves, some hunting also took place. Shellfish, always an abundant and accessible resource, were also gathered in the winter months (Halpin and Seguin 1990).

Habitation Structures

The largest Tsimshian structure at the time of contact was the winter house, which was comprised of massive planks split from redcedar logs attached to a post and beam frame. Winter houses were roughly 15 m to 18 m long, with chiefly families occupying cubicles at the rear and other families having quarters along the side walls. These dwellings usually featured plank-lined pits about 1.5 m deep and 9 m square, which formed the central living space and contained a central hearth for warmth and cooking. Platforms above the living area were used for living and storage purposes. House fronts were painted with crest designs, and wooden screens, painted with sacred designs, were erected inside at the rear of the house.

The winter house frames were left in place year round, but the planks were sometimes removed and carried to spring and summer camps for use in temporary summer house structures. Other structures typically used by Tsimshian peoples included menstrual huts, sweat lodges, summer houses, and underground food caches (Halpin and Seguin 1990).

Material Culture

The Tsimshian are noted for their fine basketry. On the coast, women used cedar bark for basketry and mats; upriver, women used additional materials, including maple, birch bark, and spruce roots (Halpin and Seguin 1990). Utilitarian items, including storage boxes, canoes, woodworking tools, and fishing and hunting gear were manufactured from various types of wood, but cedar was a dominant material.

Woodworking tools, fishing and hunting gear, and ceremonial items were also fashioned from stone, bone, antler, shell, and mountain goat horn.

Post Contact History

The Southern Tsimshian were the first division of the Tsimshian to come into contact with Europeans. In 1787, a fur-trading expedition run jointly by Duncan and Colnett is believed to have visited the village of Kitkatla and, in 1792, the Spanish explorer Jacinto Caamaño visited a village on Pitt Island. Captain Vancouver explored Coast Tsimshian waters and sailed up Portland Canal into Nisga'a territory in 1793. The Hudson's Bay Company's Fort Simpson was established on the Nass River in 183 1.

The continuing presence of the fur traders and the influx of European settlers and missionaries had a profound effect on the aboriginal inhabitants of the coast and, despite the attempts of missionaries to assimilate Native cultures, Tsimshian culture remained resilient. There were, however, changes to Tsimshian lifeways that resulted from the shift to trapping for trade, a minor gold rush along the Skeena, disease, the establishment of commercial salmon canneries, and migration of some Tsimshian peoples to Alaska.

4.2.2 Haisla

Introduction

The following summary of Haisla culture is largely derived from Hamori-Torok (1990). Other useful sources concerning Haisla ethnography include Drucker (1940, 1950), Lopatin (1945), Olson (1940), and Robinson (1962). Haisla territory is situated in the upper reaches of Douglas Channel and Gardner Canal on the inner north coast of British Columbia. In the 19th Century there were two main divisions of Haisla: the Kitamaat who resided in the Douglas Channel area, and the Kitlope of Gardner Canal (Hamori-Torok 1990:306).

Language

The Haisla speak a northern variant of the Wakashan language (sometimes known as Northern Kwakiutl), though they are somewhat isolated from their nearest linguistic relatives, the Haihais (Xaixais), Heiltsuk, and Oweekeno. It should be noted however, that some Kitamaat and the Kitasoo XaiXais people today are also Tsimshian speakers.

Settlement Pattern and Subsistence System

Similar to the Tsimshian groups to the north, the Haisla occupied principal winter villages year-round, with segments of the population traveling seasonally to various resource sites.

The Haisla harvested all five species of salmon, but coho, chum, and pink were the most important. Salmon were caught in salt water using stone tidal pounds and in fresh water rivers using weirs and traps. The Haisla also used leisters, harpoons, dip nets, and trawl nets (Hamori-Torok 1990). Like the Tsimshian, eulachon was very important to the Haisla, who traveled to the major rivers to catch it.

Land mammals were an important resource for the Haisla. In the alpine, hunting dogs were used to drive mountain goats into enclosed areas where they could be speared. Similarly deer were driven into water using dogs, and marmots, black bears, and grizzly bears were caught using dead fall traps (Hamori-Torok 1990).

Women gathered berries and other plant foods. Berries were considered very important, and the Haisla conducted controlled burns to enhance berry growth. The Kitlope area of Haisla territory was well-known for wild crab apples, and people from other territories also had harvesting rights (Hamori-Torok 1990).

Habitation Structures

The largest of Haisla structures was the winter house which was a beam and ridge pole structure with vertical wall planks, a gabled roof and a painted façade. The centre of the house contained a fire pit used for cooking and heating. The walls of the sleeping areas were lined with cedar bark mats (Hamori-Torok 1990).

Material Culture

Haisla men carved a variety of wooden utilitarian items including boxes and chests. They also wrapped twining and made burden and storage baskets (Hamori-Torok 1990:308). Women made basketry and wove mats and fabric for clothes. Typical clothing consisted of spruce root rain hats and woven yellow cedar bark robes or sewn

hides. The women wore shredded cedar bark or buckskin aprons, and, when travelling overland, people wore protective leggings.

Transportation in Haisla territory was primarily by canoe. Though most canoes were made of cedar, those used on rivers were occasionally made of cottonwood. The Haisla also made and used snowshoes.

Post Contact History

It is unclear when first contact between Europeans and the Haisla took place. Members of Jacinto Caamaño's crew took a boat up Douglas Channel during the Spanish exploration of the area in 1792, and members of the George Vancouver expedition of 1793 explored both Douglas Channel and Gardner Canal. Although they were probably somewhat affected by the maritime fur trade, it wasn't until the early 1830s that the Haisla were trading and selling directly to the Hudson's Bay Company at Fort McLoughlin, established near Dean Channel in 1833 (Hamori-Torok 1990).

The Haisla were first introduced to Christianity by Charlie Amos, a Kitamaat native converted in Victoria in 1876 (Hamori-Torok 1990). The breakdown of Kitamaat religious and sociopolitical structures was initiated by the establishment of Kitimaat mission by the Reverend George Raley of the Methodist Church in 1893. A Roman Catholic mission was established among the Kitlope people at Kemano shortly after (Hamori-Torok 1990). The government ban on the potlatch and associated practices resulted in the further breakdown of traditional Haisla social organization.

In the late 19th and early 20th centuries, the Kitamaat and Kitlope bands were allotted several reserves, and in the 1930s the two bands amalgamated. During the early half of the century and extending to the 1950s, commercial fishing and cannery work became the main sources of employment for the Haisla peoples. Commercial hand-logging and trapping also served as other sources of income. In the 1950s, the establishment of the Alcan aluminum smelter and the town of Kitimat brought another major change in the local economy. By the 1970s the smelter and associated businesses in Kitimat were the major employers of many local Haisla people.

4.2.3 Heiltsuk

Introduction

The following summary of Heiltsuk culture is based on Hilton (1990) and the summary in Millennia Research (1997a,b). Other ethnographic sources include Boas (1928, 1932), Olson (1955), and Storie and Gould (1973a, 1973b).

The Heiltsuk Nation is comprised of a number of local groups that owned and used villages and resource sites on the coastal islands and on the mainland. Today, five local groups are recognized: the 'Yidsaitxv of Dean Channel and Burke Channel, the 'Wúyalitxv of the Fitzhugh Sound area, the 'Qvúqvayitxv north of Waglisla, from Milbanke Sound up Spiller Channel and Spiller Inlet, the 'WúíAitxv of Roscoe Inlet, and the 'Xíxís from Milbanke Sound up the channels as far north as Kynoch and Klekane Inlet (Heiltsuk Cultural Education Centre cited in Millennia Research 1997b).

Language

The Heiltsuk language is considered a part of the northern branch of the Wakashan language group.

Settlement and Subsistence System

Similar to First Nations to the north, the Heiltsuk settlement and subsistence pattern changed with the availability of seasonal resources within local group territories. The primary settlement site was the winter village which was likely occupied by some villagers throughout the entire year. However, as specific resources became available (e.g., the salmon fishery) a large segment of the population moved to semi-permanent camps associated with these resource sites. These locations were owned by families, local groups, or crest groups. In the winter, families returned to permanent villages to celebrate the ceremonial season and manufacture or repair equipment (Hilton 1990).

The Heiltsuk used a wide variety of subsistence technologies to fish and to collect shellfish and marine plants. Salmon were caught using stone wall traps or wooden stake weirs and traps, harpoons, dipnets, and clubs. Sea foods such as clams, abalone, and seaweed were gathered during resource harvesting expeditions. Sea mammals, including

seals, sea lions, and sea otters, were hunted using harpoons, clubs, and the bow and arrow. Land animals, such as mountain goat and deer were hunted with dogs and either snared or speared, and bears and small game were caught in deadfall traps. Archaeological evidence of these pursuits may include artifacts (stone, bone or wood artifacts), remains of deadfall traps, or stone or wood fish traps and weirs.

Habitation Structures

Heiltsuk winter villages featured rectangular cedar plank houses with gabled roofs, double ridge poles, vertical wall planks permanently attached to the house frame, carved interior posts, a central smoke-hole, and mat-lined walls in the sleeping compartments. Less elaborate, but similar, plank houses were also built at major seasonal resource sites in areas where seasonally available marine and riverine resources were abundant. Bark houses were used at hunting stations and minor camps (Hilton 1990).

Material Culture

Heiltsuk clothing and adornment styles were similar to those of neighbouring groups. The most distinctive practice was the combination of the northern custom of wearing labrets (reserved for high-status women) and the practice of cranial modification. Labrets are sometimes found in archaeological sites, and cranial deformation may be evident in human burials.

Heiltsuk society also had a strong tradition of highly skilled artisans, noted for the production and decoration of bentwood boxes, chests, canoes, and horn spoons and ladles. Such items are sometimes preserved archaeologically.

The canoe was the principal mode of transportation, with a cedar dugout style used for sea travel and a bark canoe used on lakes. While wooden canoes are infrequently recovered in archaeological sites, evidence of their manufacture may include aboriginally-logged trees, canoe blanks, and wood working tools.

Trade

Within the North Coast Forest District, Heiltsuk lands border those of the Tsimshian and Haisla. Trade in eulachon grease, clams, herring roe, and seaweed was a vital part of

relations between neighbouring groups. Material items associated with subsistent trade may be found in archaeological sites.

Post Contact History

The first recorded contact with Europeans occurred in 1793, when two explorers separately entered Heiltsuk territory. Captain George Vancouver surveyed local channels and inlets while heading north, while Alexander Mackenzie traveled overland down the Bella Coola Valley and into Dean Channel. Soon after these initial explorations, maritime fur traders seeking valuable sea otter pelts entered Heiltsuk territory, often stopping at Milbanke Sound to trade. The fur trade instigated a period of rapid social and economic change for the Heiltsuk and other First Nations along the Coast. In 1833, the Hudson's Bay Company established a second major trading center, at Fort McLoughlin on Campbell Island, and it remained the only fort and trading store on this part of the British Columbia coast for many years. The establishment of two trading centers (Milbanke Sound and Fort McLoughlin) within their territory allowed the Heiltsuk to position themselves as middlemen and to exert control on the competition between the British and the Americans.

While the fur trade provided some economic benefits for northwest coast First Nations, European diseases, most notably smallpox, swept through the region, causing a massive decline in aboriginal populations. Boyd (1994) reports smallpox epidemics in the late 1770s, 1801-02, 1836-38, 1853, and 1862-63. The extensive 1770s epidemic reportedly affected the entire Pacific Northwest (Boyd 1990), while subsequent outbreaks were more localized. For example, the 1836-38 epidemic apparently affected the 'Yídsáitxv and 'Xíxís sub-tribal groups more drastically than other Heiltsuk groups, due to the distribution of vaccines to those groups from Fort McLoughlin. Using culturally modified tree data, Lepofsky and Pegg (1995) documented evidence that this epidemic also affected the Haisla to the north. In 1862 a devastating smallpox epidemic spread from Victoria and nearly decimated the Heiltsuk (Millennia Research 1997b).

5.0 ARCHAEOLOGICAL CONTEXT

5.1 Expected Archaeological Site Types and Distributions

An archaeological site is a location containing physical evidence of past human activity, usually in the form of artifacts or cultural features. Artifacts are human-made or modified objects, such as tools of stone, bone, shell, antler and wood. Cultural features are modifications to the landscape that cannot be moved without altering them: fire hearths, culturally modified trees, and trails, for example.

Artifacts of metal and stone are the most resistant to decay and are most often preserved in archaeological sites. Other relatively durable materials include shell, bone, antler, and horn, especially when contained within non-acidic soil matrices, such as shell middens. Wood and other plant materials are rarely well preserved in archaeological sites, except under specific conditions, such as waterlogged deposits. This significantly limits the amount of information that can be recovered archaeologically, especially on the northwest coast, where aboriginal technologies relied heavily on wood, bark, and other plant materials.

The following is a summary of the major types of archaeological sites that can be expected in the North Coast study area.

5.1.1 Culturally Modified Trees

Oral histories, ethnographies, and archaeological reports clearly show that western redcedar wood and bark were extremely important raw materials for northwest coast aboriginal cultures. Although most wooden implements are not archaeologically preserved, there is abundant archaeological evidence of bark and wood harvesting in the form of culturally modified trees (CMTs). CMTs are trees that have been altered by aboriginal people as part of their traditional use of the forest (Ministry of Forests 1998). The most important tree species to the First Nations of the North Coast was the western redcedar, but yellow cedar, cottonwood, western hemlock, western yew, and other trees were also used (Turner1998).

The First Nations of the North Coast are well-known for their sophisticated woodworking and cedar bark-working technologies. Trees were felled, trimmed and rough-hewn with

wedges and then pulled out of the forest and towed to the village for more refined working. Prior to felling, a hole was often chopped into the trunk of the tree to test the soundness of the heartwood, a consideration that was particularly important when looking for a tree suitable for a canoe or planks. Stone mauls and chisels with bits of stone, bone, and antler were the traditional means of felling trees until the post-contact period, when iron chisels and axes became abundant. Planks were split from felled logs, wind-fallen trees, and standing trees by a notch-and-wedge technique. Log sections were shaped into canoes in the forest. Due to their size, stumps of various types (dependant on the felling technique employed), planks, planked logs and windfall, tested trees, and unfinished canoes all have the potential to survive several hundred years in the forest and to be identifiable as archaeological sites (Ministry of Forests 1998).

The inner bark of the cedar was collected by pulling long, narrow strips beginning from a cut near the base of the tree, which was preferably young and devoid of lower branches. The outer bark was discarded at the harvest site and the inner bark transported to the village for processing. On the North Coast, large slabs of outer cedar bark (sometimes called bark boards) were used for the roofing of temporary shelters and the covering of canoe logs in the forest (Ministry of Forests 1998). Because the trees survive the bark-stripping event, evidence of harvesting is identifiable as an archaeological site for as long as the tree survives, and for some time after.

Expected Distribution

Little research has been undertaken regarding the association of CMTs with other site types, but preliminary indications are that CMT sites may correlate with shoreline villages, middens, drainages, and trails (Millennia Research 1996, Archer 1990, Turner 1998). Recent impact assessments in the Kumealon Inlet and Work Channel areas suggest that wood and bark procurement sites (represented by CMTs) tend to be in close proximity to known habitation sites (Arcas Consulting Archeologists 1998). However, given the predominant use of western redcedar and the wide distribution of cedar within the study area, forest utilization sites have also been found in other contexts.

CMTs are often identified near the foreshore area, but they have also been recorded several kilometres inland, and on landforms ranging from flat beaches to steep slopes. According to The Bastion Group (1996a), culturally modified trees occur randomly

within the Hevenor Inlet area, but are present in greater densities near lakeshores. Turner (1998:77) indicates that different cultural groups had individual bark collection strategies, but that the general pattern involved travelling "long distances along creeks and into the mountains to find trees with suitable bark for harvesting".

In Kitkatla territory, Archer (1990) reported that virtually no information was available in the ethnographic literature regarding logging and bark stripping locations, but that these sites would be included in the "exploitation territory of an occupation site". In other words, most CMT sites should be accessible from habitation sites.

While CMTs of red and yellow cedar, as well as hemlock, have been found on the North Coast, the vast majority of recorded CMTs are western redcedars. Due to the extent of past logging, intact CMT sites are most commonly found in stands of old growth forest.

5.1.2 Habitations and Shell Midden Sites

Habitation sites are locations that were used for permanent, semi-permanent, or short-term residence, and they may be characterized by features such as house depressions, platforms, caves and rockshelters, hearths, and refuse deposits, such as shell middens.

Shell midden sites most often represent household refuse deposits resulting from the extended use of a habitation site, but they may also indicate non-habitation shellfish harvesting and preparing areas. The primary component of middens is shell, generally dominated by clam or mussels, but also including other species. Other common constituents of habitation-related midden deposits include animal and fish bone and fire-cracked rock. The midden soil matrix is typically highly organic, black, and greasy, with a high ash or charcoal content.

In their description of two midden sites in Kiltuish Inlet, Mackie and Eldridge (1988) noted that 90% of the matrix was composed of crushed mussel shell, cockle, marine snail, barnacle and charcoal. A small portion of the midden consisted of fire broken rock. In addition, they noted that, unlike many other shell middens, fish and mammal bone were not present in large numbers. In the Prince Rupert Harbour area however, shell middens indicate a broad hunting-fishing-gathering subsistence base, characterized by a shifting focus on various resources throughout time (Fladmark et al. 1990).

Midden deposits are frequently found in association with other archaeological components, such as house platforms, burials, and canoe runs. The size of a midden is widely assumed to reflect the length or intensity of occupation, although this may not always be the case (see Hobler 1990).

Due to their inferred use as refuse dumps, artifacts (typically broken) are commonly recovered from shell middens, although usually in small numbers. However, artifact density varies greatly between middens, and in some cases artifact totals can be exceptionally high. Because of their range of cultural materials and long periods of deposition, shell midden sites can be important for the development of cultural chronologies. The possibility of discovering temporally diagnostic artifacts in datable stratigraphic contexts makes middens an extremely significant site type.

Human remains are also often associated with shell midden deposits, indicating that not all middens are refuse dumps. Carlson (1998) suggests that shell or shellfish may have been used as offerings to the dead, and that some shell middens should be considered sacred sites.

Expected Distribution

Along the coast, the majority of habitation sites, especially those occupied during the windy winter season, are expected to be located on beaches, near sources of fresh water, in protected locales suitable for landing canoes.

Archer (1990) notes that Kitkatla winter village sites were located on salt water, facing the ocean. Preferred localities were relatively level and well-drained, with a beach suitable for landing canoes. No mention is made of fresh water being a requirement for site location.

The Bastion Group reports that habitation sites, including villages, camps, and processing areas (i.e., shell middens) are generally located on well-developed landform features near shorelines and rivers (The Bastion Group 1996b). These locations were chosen to take advantage of a variety of factors such as "1) the supply of fresh water, 2) the relatively easy access to land-based resources provided by the low slope of the surrounding

hinterland 3) the presence of a suitable canoe beaching area, 4) a nearby defensible position, and 5) shelter from wind and heavy weather" (Halpin and Seguin 1990).

Drucker (1943:29) also reported that village sites are found along the shoreline, stating "One need not wonder that the natives were beach dwellers who penetrated the woods but rarely. Dwelling along the shore, they were conveniently situated to exploit the vast aquatic food resources of the area – fish (salmon of five species, herring, eulachon, halibut, etc.), mollusks, and for variety, various marine mammals, and birds". Specifically, he mentions a midden at McLoughlin Bay on Campbell Island that extends about 1,000 feet from the mouth of a creek, flowing into the bay (Drucker 1943: 105).

Harlan Smith mentions numerous shell midden sites on islands on the North Coast (in Capes 1976). Burial caves are reportedly present near several midden sites. Villages sites are also reported along the Skeena River, although most or all of these are outside the North Coast Forest District study area.

Defensive sites are special purpose habitations that were used as refuges during times of conflict. These sites are usually located on small islands or peninsulas with steep cliffs and a single access corridor. Although there may be exceptions, defensive sites typically do not show evidence of long-term intensive habitation. Drucker (1943: 105) described a defensive site on Chatfield Island as follows: "At Raven Cove on the northwest end of Chatfield Island, near the southern entrance of Return Channel, a midden is located on a small isolated knoll connected to the main island by a narrow low saddle. The beach is very rocky. The site conforms to ethnographic descriptions of refuge island settlements".

Further inland, major habitation sites are expected to be closely associated with major rivers, such as the Nass and Skeena, while seasonal resource camps may be found on lake shores (fishing, hunting, or plant collecting camps), along smaller rivers (fishing camps), or in the subalpine or alpine (hunting or plant collecting camps). Gentle terrain and a source of water are expected to be important factors for site location.

For the Tsimshian, Archer (199 1) reports that eulachon fishing sites were occupied at the mouth of the Nass River between February and early April, after which stored eulachon were taken back to the permanent winter villages. In late summer, fishing camps were set up on the lower reaches of salmon streams.

5.1.3 Artifact Scatters

Artifact scatters consist of formed stone, bone, antler, and horn implements or tools and the waste materials resulting from their manufacture. Scatters may be found on or below the ground surface. On the coast, most artifact scatters are quite small, and contain a low density of artifacts. However, some scatters can extend for hundreds of meters, or include numerous raw materials and tool types.

Most known artifact scatters in the study area have been found along the coastline, but they could exist almost anywhere that people undertook activities that could result in the discard or loss of material items. Inland artifact scatters, if present, may be very difficult to locate in the dense coastal forest.

5.1.4 Canoe Runs

Canoe runs are sections of beach that have been cleared of rocks to allow the safe landing of canoes. Canoe runs are often associated with habitation and/or shell midden sites.

5.1.5 Stone Wall Fish Traps

Stone wall fish traps consist of loosely piled rock walls that were used to impede the movement of fish with the falling tide. Some fish traps may have incorporated additional perishable components such as stakes, nets or basket traps, and they occasionally show complex histories of repair and expansion. Fish traps occur in the intertidal zone, sometimes near habitation sites, and often near the mouths of rivers. I.R. Wilson Consultants (1994) report that a Hartley Bay elder indicated that most fish-bearing creeks within bays, coves and inlets contain fish traps.

5.1.6 Fish Weirs

Fish weirs commonly consist of a line of wooden stakes protruding above the river floor and are thought to have been designed exclusively to trap spawning salmon (Hobler 1990). Only three fish weir sites have been recorded in the study area, all of which occur along the coastline, at or near the mouths of streams.

5.1.7 Rock Art

Rock art can consist of pictographs (paintings on rock), petroglyphs (rocks with carvings or etchings), or petroforms (man-made alignments or piles of rocks or boulders).

Pictographs are generally located on vertical rock exposures or boulders along the coastline or on lakeshores, while petroglyphs tend to be found on horizontal or vertical sedimentary rock faces along the shoreline.

5.1.8 Burial Places

Burial places contain material evidence and features associated with mortuary practices, including human skeletal remains and the burial pits, mounds, cairns, boxes, trees, and caves in which they are found, as well as grave goods and grave markers. Most of the 23 recorded burial sites in the study area are located within a few metres of the coastline, near habitation sites, or on islands. Burials are often found in rock crevices associated with cliff formations along shorelines or inland rock falls close to traditional village sites (the Bastion Group 1996b:3).

5.1.9 Trails

Overland trail routes were important for reaching inland resource collection areas and for interacting with inland First Nations. Major eulachon trading trails, known as "Grease Trails" are well-known in the Nass River area.

Overall, trails tend to follow subdued terrain, although segments may be steep. Trails can be expected to connect habitation sites with inland resource localities in various environmental zones. Trading trails will serve as a link between neighbouring cultural groups.

5.2 Previous Archaeological Investigations in the North Coast Region

While the North Coast has seen considerable archaeological research, most of it has been geared toward specific site types (e.g., rock art), or narrow geographic zones (e.g., Prince Rupert Harbour and Skeena River Valley). The major research and cultural resource management (CRM) projects in the North Coast region are reviewed in Commonwealth

Historic Resource Management Ltd. and Millennia Research (1996) and are not repeated here.

According to Equinox Research and Consulting Ltd. (1997), just over 1700 hectares of the North Coast Forest District had been adequately assessed for archaeological sites as of the end of 1996. Of those, almost all were near the coast and within the CWH biogeoclimatic zone. The Equinox report recommended that 1% or 4,000 (whichever is less) hectares should be inventoried from each of the CWH, MH and AT zones to provide more representative data for the TSA. That goal has not been satisfied to date.

Since the early 1990s, much of the archaeological focus in the North Coast TSA has been on cultural resource management in relation to forestry developments. Archaeological impact assessments (AIAs) and, more recently, less-intensive preliminary field reconnaissance (PFR) have become common components of forestry planning. In reviewing previous archaeological work for this AOA, forestry-related CRM reports were emphasized, as those data were considered most pertinent to the study objectives.

Copies of archaeological reports commissioned by the Ministry of Forests, Interfor, and Pacific Cascades were provided by the Ministry and licensees. West Fraser Mills provided a list of archaeological permits covering work completed for their operations, and the reports were obtained from the Heritage Resource Centre. Table 1 summarizes the reports reviewed for this study. All assessed cutblocks from these reports were digitized in ArcView. These areas encompass 4,512 hectares of land, or 0.23% of the TSA. Twenty-two archaeological sites were identified in these assessments, which equates to 0.005 sites per hectare, or 5 sites per 1,000 hectares inventoried.

Table 1
Summary of Archaeological Assessments for Forestry Clients in the North Coast TSA

Year of Field	General Location	Development Type	Level of Work
Work			
1986	Kitkiata Inlet	floating barge camp	Monitor
1989	Gardner Canal	general area	AIA
1991	Alpha Creek, Ogden Channel	5 blocks	AIA
1991	Alder Creek	10 cutblocks	PFR/inventory
1991	Crow Lagoon, Steamer	5 blocks, road, dump,	AIA
	Passage	camp	
1992	Captain Cove, Pitt Island	4 blocks, road, dump,	AIA
		bridges	
1992	Chute Lake	8 cutblocks	inventory/AIA
1992	Drake Inlet	"several blocks"	AIA
1993	Kennedy Island	4 blocks, road, dump	AIA
1993	Goat Harbour and Fishtrap	"several blocks in two	AIA
	Bay	areas"	
1993	Hevenor Lagoon	general logging area	INV
1993	Chapple Inlet	9 cutblocks, haulroad,	AIA/inventory
		dryland sort	

Table 1 Summary of Archaeological Assessments for Forestry Clients in the North Coast TSA (cont'd)

Year of Field Work	General Location	Development Type	Level of Work
1994	Fan-ant Island	1 block, 2km road, dump	AIA
1994	Devon Lake. Pitt Island	8 blocks	AIA
1994	Somerville Island	3 blocks	
1994	Khutzeyrnateen Inlet (McGregor Point)	3 blocks	AIA
1994	Leavitt Lagoon (Pitt Island)	1 block	AIA
1994	Douglas Channel (Bardon Creek, Stair Creek)	3 blocks	AIA
1994	Cornwall Creek	8 cutblocks, road, log sort and dump	'
1994	Marion Lake	6 cutblocks, haul road	AM/inventory
1995	Walskakul Point, Khutzevmateen Inlet	1 block	AIA
199.5	Halfway Creek	13 cutblocks	AIA
1995	Bill Creek, Work Channel	2 blocks, road, bridge, dump	AIA
1995	Ayton Creek	12 cutblocks, haul road	AIA/inventory
1995	Hawkesbury Island	4 cutblocks, 7.2km road, 2 bridges, 1 log dump and sort area	PFR/AIA
1996	Rix Island	1 block	AIA
1996	Heavenor Inlet	1 block, road, log dump	AIA
1996	Verney Passage	1 block	AIA
1996	Newcombe Harbour	1 block	AIA
1996	Payne Channel, Pitt Island	1 block	AIA
1996	Cornwall Inlet	2 blocks	AIA
1996	Steamer Passage/Somerville Island	23 blocks	AIA
1996	Kennedy Island	3 blocks, road, 2 bridges	AIA
1996	Gribbell Island and Silver Creek	13 cutblocks, 1 log dump	AIA
1996	Kiskosh Inlet	7 blocks	AIA
1996	Kumealon Inlet, Grenville Channel	12 cutblocks, 13 km haul road	AIA
1996	McShane Creek, McNeil River	9 cutblocks, 7.950km road	
1996	Kitkiata Inlet	road	monitor
1997	Pitt Island	8 cutblocks	AIA

Table 1
Summary of Archaeological Assessments for
Forestry Clients in the North Coast TSA (cont'd)

Year of Field Work	General Location	Development Type	Level of Work
1997	various locations	66 cutblocks, 25.7 km	AFR/AIA
		road	
1997	Captain Cove, Pitt Island	2 blocks, 6 km road	AIA
1997	Porcher Inlet	2 blocks, 5 km road	
1997	Alan Reach, Gardner Canal	3 blocks, 7 km road,	AFR/AIA
	,	dump	
1997	Gribbell Island	1 block, road, dump	AIA
1998	Kumealon Inlet	7 blocks	AIA
1998	Kumealon Inlet	9 blocks	AFR
1998	Work Channel	15 blocks	AIA
1998	Work Channel	2 blocks	AFR
1998	Work Channel	11 cutblocks	AFR/AIA
1998	Bums Bay, Mink Trap,	9 cutblocks	AIA
	Banks Island		
1998	Tag Creek	general area	AFR/inventor
1998	Work Channel, Denise Inlet	29 cutblocks	AIA
1998	Princess Royal Island	22 cutblocks	AFR/AIA
1998	Union Inlet	log dump, 3.9 km road	AIA
1999	Smith Island	2 blocks, 1 road	AIA
1999	Bear Lake, Princess Royal Island	1 cutblock (H3022)	AIA
1999	Bear Lake	1 cutblock (H3037)	AIA
1999	Cougar Lake, Princess Royal Island	cutblock (H6002)	AIA
1999	Bear Lake	1 cutblock (H6003)	AIA
1999	Cougar Lake, Princess Royal Island	cutblock (H6004)	AIA
1999	Cougar Lake, Princess Royal Island	cutblock (H6006)	AIA
1999	Surf Inlet	dryland sort, Dam M/L, and West Dam M/L	AIA
1999	Surf Inlet	1 cutblock (6200)	AIA
1999	Kumealon Inlet	4 blocks	Review of CMTs
1999	Cougar Lake, Princess Royal Island	cutblock (6210)	AIA

Since 1986, forestry-related assessments have identified 11 shell midden sites, 1 pictograph site, 1 petroglyph site, 1 lithic site, and 99 CMT sites. Nineteen CMT sites have been described in reports, but were not officially recorded as sites, following common procedure prior to about 1994. These CMT sites were digitized during the present study, and they are included in the total of 99 CMT sites. Several consulting firms have undertaken CRM work in the North Coast TSA, and differing levels of field effort and widely varying reporting standards are evident.

5.3 The North Coast Archaeological Sequence

The archaeological sequence for the North Coast has been developed primarily on research work in the Prince Rupert Harbour and Kitselas Canyon areas. No archaeological sites older than 5,000 years B.P. have been found on the North Coast, but it is unlikely that earlier sites are absent, Very early sites have been found on the Queen Charlotte Islands, in southern Alaska, and on the Central Coast, suggesting that such sites should be present on the North Coast. As discussed in Section 3.2.2, sites older than 5,000 years may be either submerged or on elevated shorelines associated with historic changes in relative sea level.

Based on current information, the following archaeological sequence is proposed for the North Coast region. As more information becomes available, revisions to this sequence can be expected. Unless otherwise noted, this summary is based on Matson and Coupland's (1995) synthesis of Northwest Coast prehistory.

5.3.1 Early Period (Initial Occupation to $\pm 5,000$ B.P.)

According to Matson and Coupland (1995), the earliest clear archaeological complex on the North Coast is the North Coast Microblade Tradition, which prevailed from northern Vancouver Island to the Alaska Panhandle between about 9,000 and 5,000 B.P. Characterized by the use of microblades and pebble tools, and the absence of chipped biface technology, this archaeological tradition contains evidence of shellfish and ocean fish consumption. Despite rapid changes in sea levels and forest succession, the limited archaeological information to date suggests cultural stability throughout this period. It should be emphasized, however, that no archaeological sites dating to this period have been reported for the North Coast TSA. The only dated site with a North Coast Microblade component near the study area is the Paul Mason site at Kitselas Canyon, on

the Skeena River. This is an inland riverine site with an early component dating to between 5,000 and 4,300 B.P., at the end of the Early Period. This period has been designated the Bornite Phase at Kitselas Canyon (Coupland 1988).

5.3.2 Prince Rupert Harbour Period III / Skeena Valley Bornite, Gitaus, and Skeena Phases (5,000 to 3,500 B.P.)

The first known occupation of Prince Rupert Harbour took place in this time period, known archaeologically as Period III. Matson and Coupland (1995) assert that distinctive coastal cultures first emerged in Period III, with numerous "archaeological cultures" developing where the more homogeneous North Coast Microblade tradition previously prevailed. Major changes are evident in the artifact record: microblades disappear, and bone and ground stone tools become abundant by the end of Period III.

Excavated animal remains indicate a generalized subsistence at this time, with a relatively high proportion of land mammals, as well as marine mammals and fresh and salt water fish (Matson and Coupland 1995). Shell middens are small, and salmon, though present, do not appear to have been intensively harvested or stored. No house remains dating to this period have been excavated, but Matson and Coupland (1995) cite the lack of heavy woodworking tool and the small size of excavated postholes as evidence that large plank houses were not used at the time, possibly indicating a small, mobile population.

Three archeological phases have been defined in the Skeena Valley during this time span, based on excavations at the Paul Mason and Gitaus sites in Kitselas Canyon. The Bornite phase persisted from the Early Period well into Period III. At about 4,300 B.P., the Gitaus Phase began, signaled by the disappearance of microblades and the appearance of chipped bifaces and an increased in the use of ground stone tools (Matson and Coupland 1995). Between about 3,600 and 3,200 years ago, changes in lithic raw material types and evidence for a well-developed chipped stone industry identify the onset of the Skeena Phase (Matson and Coupland 1995). While some researchers (e.g., Ives 1987) have interpreted these archaeological changes to a population incursion from the Interior, Coupland (1988) argues for a coastal population, with seasonal movements inland and an increasing emphasis on land mammal hunting.

5.3.3 Prince Rupert Harbour Period II / Skeena Valley Paul-Mason and Kleanza Phases $(\pm 3,500 - \pm 1,500 \text{ B.P.})$

In Prince Rupert Harbour, Period II sites represent the first clear archaeological evidence of a relationship with ethnographically-known cultures (Matson and Coupland 1995). Winter villages, large shell middens with varied shellfish remains, new fishing technologies, salmon storage, increased reliance on marine resources at the expense of land mammals, and differential (ascribed) status of individuals have been inferred from the archaeological record during this period. In the Skeena Valley, evidence of large rectangular houses and salmon storage appear at the Paul Mason site this time, which is represented locally by the Paul Mason phase. Throughout the North Coast, populations appear to have grown rapidly during Period II/the Paul Mason Phase.

Between about 2,500 and 1,400 years ago, the Developed northwest Coast Pattern was fully achieved. Artifact assemblages dated to late Period II are similar to those of Early Period II, but with greater variety, indicating an expansion of material culture throughout the period. Exotic materials, such as dentalia, obsidian, and copper suggest long distant trade systems existed. Matson and Coupland (1995:229, 23 1) cite evidence of a possible "warfare complex" at Prince Rupert Harbour, which they say is in contrast with Central Coast evidence, which lacks indications of conflict.

5.3.4 Prince Rupert Harbour Period I ($\pm 1,500-\pm 150$ B.P.)

Several archaeological sites in the Prince Rupert Harbour area have components dating to Period I. The historically known Tsimshian culture is fully developed by this time. Material items indicate general cultural continuity with late Period II sites, although several new artifact types were introduced in Period I. Subsistence continued to focus heavily on marine resources and salmon, and large winter villages with permanent houses were occupied. Defensive sites seem to have been introduced in Period I, indicating continued or increasing warfare. Little research has been completed on non-villages sites dating to Period I, and consequently our knowledge of the seasonal round is limited.

6.0 GIS ANALYSIS OF THE NORTH COAST TSA LANDSCAPE

A number of GIS analyses were completed to characterize the North Coast landscape. Variables that were believed to be important for predicting archaeological site locations were assessed in terms of their overall distribution in the study area. These analyses, taken together with the analysis of recorded archaeological sites, helped to evaluate the model variables. Data for the major modelling variables are discussed in the following sections.

6.1 Test Areas

Three areas, each comprised of 4 TRIM sheets, were selected by representatives of the Ministry of Forests and Golder's GIS team for testing the predictive models prior to applying them to the entire TSA (Figure 1). Test Area 1 consists of map sheets 103P 032, 042, 043 and 052 in the Alice Arm area. Test Area 2 includes map sheets 103J 058, 059, 068, and 069, in the vicinity of Port Simpson. Test Area 3 is in the Surf Inlet area, and consists of TRIM sheets 103A 095 and 096, and 103H 005 and 006. The test areas were selected to represent different geographic sectors of the study area.

Terrain analyses were not completed specifically for the test area, as it was not certain that they were statistically representative of the entire study TSA. Instead, the test areas were used to evaluate the results of models that were developed on the basis of terrain and recorded archaeological site data from the entire TSA.

6.2. North Coast TSA

6.2.1 Slope

Slope was considered a highly important variable, particularly for predicting habitation site locations. Table 2 shows the distribution of various slope classes across the North Coast study area. Note that the percentages cannot be summed, due to overlap in the categories. These data clearly illustrate the steep, rugged nature of much of the northwest coast. Figure 3 shows the slope characteristics of the North Coast.

Table 2 Slope Classes in the Study Area

Slope	Area (ha.)	% of Study
		Area
0-20%	447,074	22.7
0-30%	662,087	33.6
0-40%	874,096	44.4
0-70%	1,487,021	75.5
0-90%	1,716,662	87.2

These data show that about two-thirds of the study area lies on a slope of more than 30%, and more than half of the TSA has a gradient of more than 40%. Since these conditions are not conducive for most types of habitation sites, slope is considered to be a useful variable for predicting habitation site locations.

6.2.2 Elevation

Elevation was used in concert with slope to help identify shoreline locations with habitation potential, and also as a supplement to biogeoclimatic zone data for CMT site analyses. Table 3 shows the breakdown of elevation classes in the North Coast TSA. The vast majority of the TSA is more than 100 m asl, and approximately 10% may be above the tree line. This information, combined with an analysis of elevation ranges of known archaeological sites, is useful for predictive modelling.

Table 3
Elevation Ranges in the Study Area

Elevation	Area (ha.)	% of Study Area
I 0-10 m asl I	19,943 I	1.0
O-20 m asl	73,283	3.7
O-100 m asl	432,867	22.0
O-300 m asl	881,772	44.8
O-400 m asl	1,046,802	53.1
O-1000 m asl	1,740,277	88.4
0-1100 m asl	1,806,093	91.7

6.2.3 Distance to Coast

Distance to the shoreline was considered a very important modelling variable, since the First Nations of the study area have largely maritime-oriented cultures. With the exception of CMT sites and resource camps on lakes or inland reaches of rivers, most archaeological site types are expected to be associated with foreshore or near shore contexts. Table 4 represents the study area in terms of distance to the coastline.

Table 4
Distance to Coast in the Study Area

Distance to Coast	Area (ha.)	% of Study Area
O-100 m	69,705	3.5
O-200 m	122.702	6.2
O-300 m	169,369	8.6
O-500 m	252.326	12.8
O-1000 m	427,492	21.7
O-2000 m	706,625	35.9
200-2000 m	570,215	28.9

While most recorded habitation sites are near the coastline, Table 4 shows that most of the TSA is distant from the coastline. This means that the majority of habitation sites is found within a small portion of the study area, in terms of distance to salt water. Consequently, distance to coast should be a good variable for predicting habitation site locations.

6.2.4 Islands

Approximately 986,950 ha. of the North Coast study area lies on islands. Marine islands account for almost 784,000 ha. (about 40% of the study area), of which about 8,275 ha. are islands smaller than 50 hectares. Fresh water islands in lakes and rivers comprise an additional 2,950 ha.

6.2.5 Proximity to Fresh Water

Four categories of fresh water were considered in the analysis: two-line rivers (>20 m bank-to-bank), definite rivers, intermittent rivers, and lakes. Lakes were defined as those

5 ha. in area or larger. Table 5 provides a breakdown of the amount of the study area within various buffers of fresh water sources.

Table 5
Proximity to Nearest Fresh Water in the Study Area

Water Source	Buffer	Area (ha.)	% of Study Area
Two Line River	100 m	18,897	1.0
	200 m	35,211	1.8
	300 m	51,914	2.6
Definite River	100 m	272,214	13.8
	200 m	526,088	26.7
	300 m	720,274	36.6
Intermittent River	100 m	564,606	28.7
	200 m	1,010,037	51.3
	300 m	1,313,236	66.7
Lake	100 m	47,812	2.4
	200 m	97,911	5.0
Nearest Fresh	100 m	1,008,778	51.2
	200 m	1,412,191	71.7'
	300 m	1,592,515	80.8
	500 m	1,692,047	8 5.9 ¹

This table shows that more than half of the study area is within 100 metres of a source of fresh water. Taken on its own, distance to fresh water probably would not be a robust modelling discriminator, because there is a strong chance that any given location will be near a fresh water source. However, combined with other variables, distance to fresh water may be a useful factor, especially in light of ethnographic and archaeological reports of habitation and CMT sites being associated with fresh water sources.

6.2.6 Cedar Content

Presence of cedar was considered crucial to the CMT model, which focused on bark-stripped and aboriginally logged cedar CMTs. According to the forest cover data, 1,089,620 ha. of the study area (55.3%) contains at least 1% cedar (Figure 4), and

617,781 ha. (31.4%) contains 50% or more cedar. In order to be useful for predictive modelling, it would be necessary to combine cedar content with other variables.

6.2.7 Age and Height Class

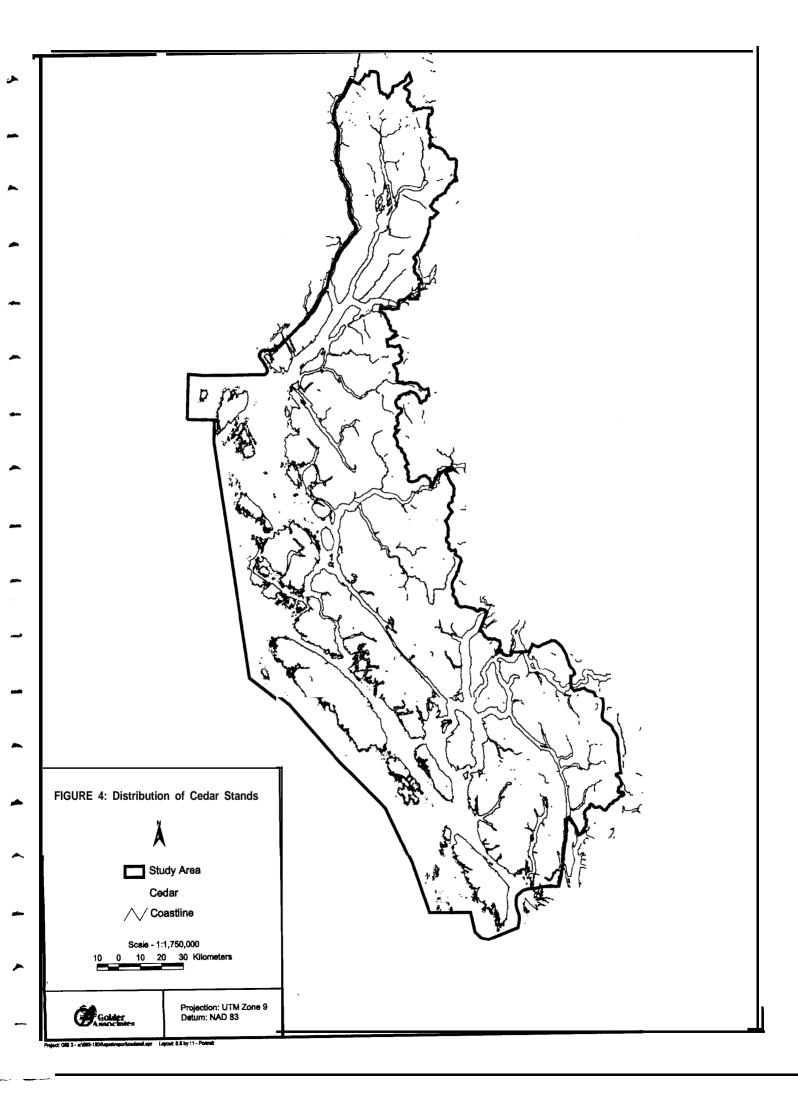
The age and height classes of cedar stands are important for evaluating the probability of CMTs being present. The models focused on age classes 7 through 9 (>121 years) because CMTs are most likely to be intact in older (i.e., un-logged) stands. This does not imply that CMTs did not previously exist in stands that have been logged or otherwise impacted, but simply that they are less likely to remain intact.

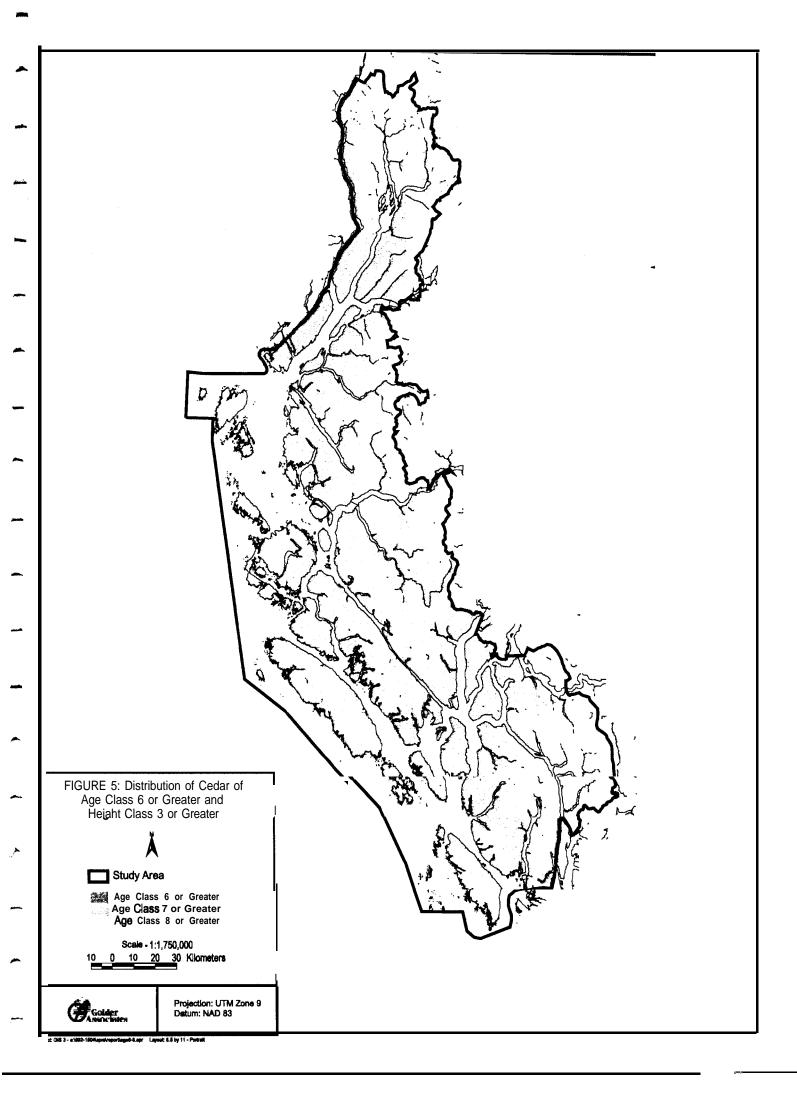
Height class was considered to be important for excluding stunted stands that probably would not be valuable for bark or timber. Table 6 and Figure 5 show the distribution of the relevant age and height classes within cedar stands.

Table 6
Age and Height Class Distribution of Cedar Stands in the Study Area

Stand Class	Area (ha.)	% of Study Area
Age Class 8+	1,127,721	57.3
Age Class 7+	1,149,9956	58.4
Age Class 6-t	1,162,172	59.0
Height Class 4+	237,064	12.0
Height Class 3+	564,505	28.7
Height Class 2+	874,177	44.4

The age class analysis shows that over half of the forestry polygons in the study area are old enough to be considered old growth (age class 8+; see Figure 5). In isolation, age class does not appear to be a good discriminator, but combining age with height class improves the predictive power. For example, 58.4% of the study area contains cedar of age class 7 or older, but adding a height class requirement of 3 or greater reduces this area to about 24%.





7.0 GIS ANALYSIS OF RECORDED SITES

GIS analyses of the spatial characteristics of recorded sites in the TSA and immediately adjacent areas were used to help develop predictive models for estimating archaeological site potential. The following sections present the GIS results of the analyses of recorded sites.

The slope, elevation, distance to the coastline, and distance to the nearest source of fresh water (major river, definite river, intermittent river, or lake), cedar content, and forest stand age and height class were calculated for each site (Appendix 2). The sites were then broken down by site type to summarize the data. These analyses, together with the landscape information, were used to evaluate the applicability of archaeological models previously developed for the Central Coast LRMP area (Golder Associates 1999a) and for a portion of TFL 25 (Golder Associates 1999b).

7.1 Overall Site Analysis

Analyses were performed on recorded archaeological sites in the TSA as well as a small surrounding buffer, which was included to increase the sample size. According to information supplied by the Archaeology Branch, the TSA and adjacent areas contained 732 recorded archaeological sites. Of these, 343 (46.9%) have habitation components (including shell middens, "villages" and house depressions), and 164 (22.4%) contain CMTs. There are 62 fish traps, 21 pictographs, 3 fish weirs, 45 canoe runs, 25 burials, 29 petroglyphs, 22 lithic scatters, 12 historic sites, 1 trail, and 5 sites with inadequate records to determine site type. Figure 6 shows the relative frequency of the major site types in the North Coast, as presently known. Note that some sites have multiple components, so the total number of site components shown in the figure is greater than the number of recorded sites.

Overall, the recorded sites tend to be found along the coastline or on islands, reflecting the history of archaeological research in the region. The following sections describe the spatial and terrain characteristics of the recorded sites in the study area. Table 7 and Figures 6 through 20 summarize the data.

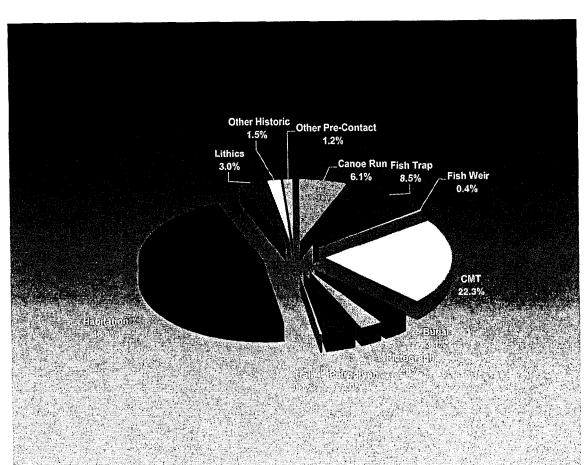


Figure 6 - Relative Frequency of Major Components in the North Coast TSA

7.1.1 Slope

Slope values for the sites ranged from virtually flat (less than 1%) to 148%, with a median of 10%. Almost half (47%) of the sites are on slopes between 0% and 10%, and 69% are on gradients less than or equal to 20%.

7.1.2 Elevation

The sites range in elevation from sea level to 520 metres asl. The median elevation is 12 metres, and 78% of the sites lie between 0 and 30 metres asl.

7.1.3 Distance to Coastline

Most site types show a strong correlation with the coastline. The sites range from less than I metre from the shore to more than 2 km inland, but the median distance is only

16 metres from shore. This site distribution pattern is consistent with the strong maritime emphasis of North Coast First Nations cultures. However, the high proportion of shell midden and village sites in the current recorded sites database also indicates an historical bias toward archaeological investigations of shoreline contexts rather than inland areas. As more inland sites, including CMTs, are located, this median value can be expected to increase somewhat.

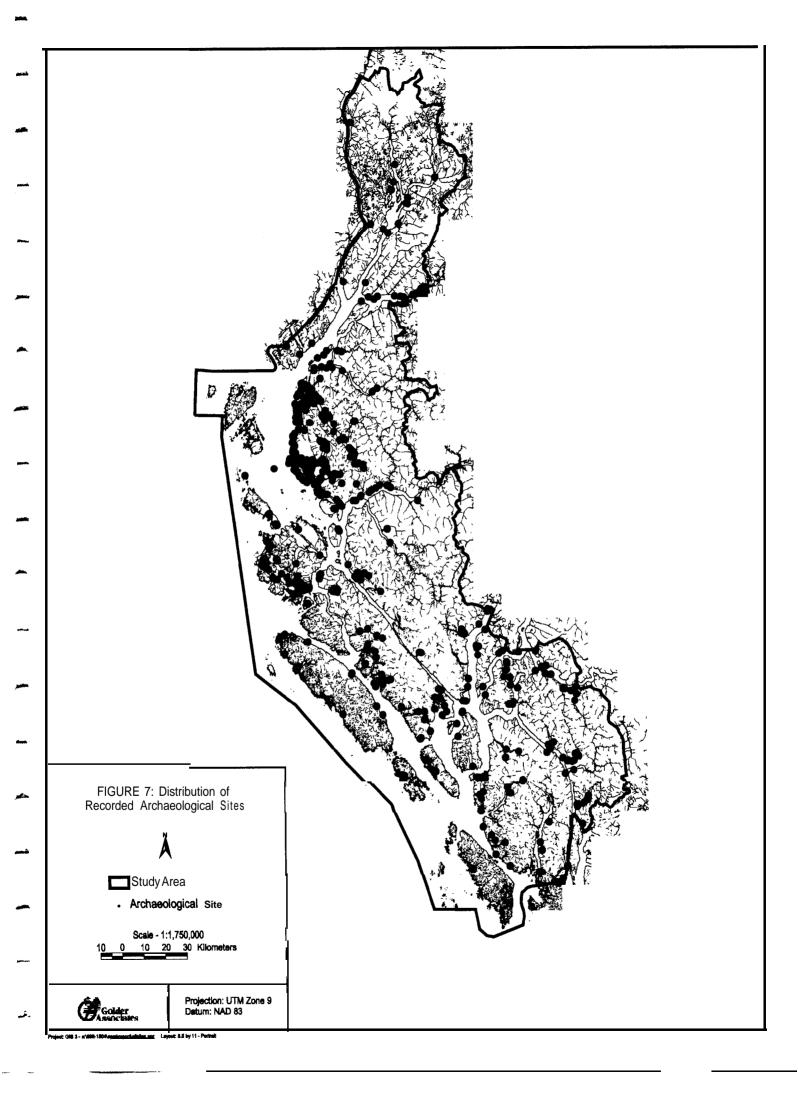
7.1.4 Distance to Fresh Water

A weak relationship is indicated between recorded archaeological sites and fresh water sources. Although the median distance from a site to the nearest TRIM-coded fresh water source is 222 m, only 48% are within 200 m of fresh water, and 27% are more than 500 m distant. This apparent pattern may be partially a function of the resolution of hydrology mapping in TRIM, and partially due to the inclusion of all site types in the analysis, some of which (e.g., pictographs, petroglyphs, and burials) may not correlate with fresh water. A more detailed evaluation shows that 98% of the sites are within 200 m of either salt water or fresh water.

Table 7
North Coast Test Area Site Characteristics (Median Values, All Site Types)

Terrain Variable	North Coast Test Area Sites
Slope	10%
Elevation	12 m asl
Distance to Salt Water	16 metres
Distance to Fresh Water	222 metres

While the overall site analysis provides a general perspective on recorded site characteristics, an analysis by site type is more useful for assessing site distribution patterns. Site-type analysis was limited to habitations and CMTs, due to sample size considerations and because these site types (particularly CMTs) were deemed best suited to modelling and most likely to be impacted by forestry operations. Other site types were not modelled, but their expected distributions are discussed in Section 5.1.



7.2 Site Type Analyses

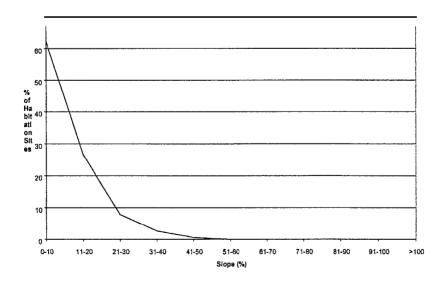
7.2.1 Habitation Sites

A total of 343 habitation sites were used for the analysis. Table 8 compares the attributes of these habitation sites with those of the Central Coast LRMP area to the south, using median values. In general, the site distribution pattern is very similar to that of the Central Coast, where coastal villages and shell midden sites tended to occur on islands and in sheltered bays along the mainland coast (Figures 8 through 12).

Slope

The slope of each habitation site was determined from the GIS grid values, and frequencies were calculated for slope ranges (Figure 8). Habitation site slopes range from less than 1% to 47%, with a median of 8%. Sites with slope values of less than or equal to 10%, total 214 (62%), and 305 (89%) are on slopes of 20% or less. On the Central Coast, slopes ranged from 0% to 129%, with a median of 15%.

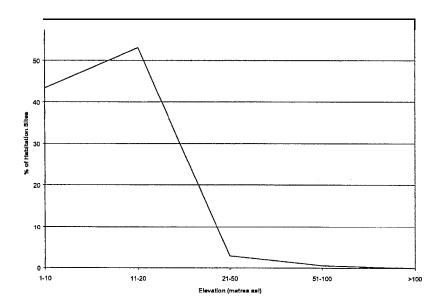
Figure 8
Slope Ranges for Habitation Sites



Elevation

Elevations for the habitation sites ranged from 1 m to 51 m asl, with a median of 11 m. Forty-three percent of the sites are between sea level and 10 m asl, and 96% are between 0 m and 20 m asl (Figure 10).

Figure 10 Elevation Ranges for Habitation Sites



Distance to Salt Water

As expected, almost all of the test area habitation sites (95%) are within 100 metres of salt water and coastal habitations are within 300 metres (Figure 11). The remaining 5 sites (1.5%) are more than 2 km inland and are considered inland habitations.

Distance to Fresh Water

There appears to be little correlation between habitation sites and fresh water sources (Figure 12). The median distance from a habitation site to the nearest source of fresh water is 409 metres. Only 22% of the sites fall within 100 metres of fresh water, and just 31% are within 200 metres. Almost half (43%) of recorded sites fall more than 500 metres from a source of fresh water, possibly indicating that water was carried in to the site (defensive sites, for example), or that rain water was collected during winter

storms. Alternatively, the water source may not have been correctly coded on the TRIM base maps.

Figure 11
Distance from Habitation Sites to Coast Line

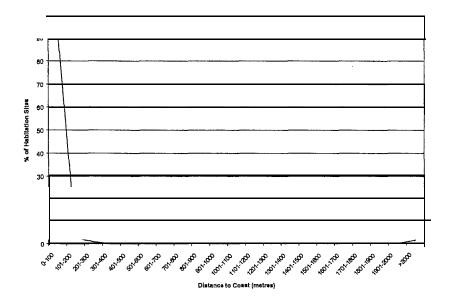


Figure 12
Distance from Habitation Sites to Fresh Water

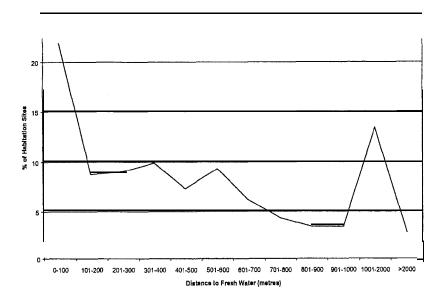


Table 8
Comparison of GIS Analyses for Habitation Sites

	NORTH	NORTH	CENTRAL COAST
	COAST TSA	COAST	SITES
	SITES	TEST AREA	
		SITES	
Number of Sites	343	72	957
Slope	8%	10%	15%
Elevation	11 m asl	11 m asl	5 m asl
Distance to Salt Water	7 metres	6 metres	30 metres
Distance to Fresh Water	409 metres	105 metres	297 metres

This summary shows that, with the exception of the fresh water variable, the analyzed site characteristics for the test areas were representative of the entire population of habitation sites in the TSA. Some differences are seen between the TSA habitation sites and those on the Central Coast, but the median values for most variables are within a narrow range. The differing sample sizes may contribute to this difference, or it may be a reflection of cultural or geographic variability.

7.2.2 CMT Sites

One hundred and fifty-eight CMT sites were included in the site analysis, and an additional 19 CMT sites were subsequently digitized from information provided in archaeological reports. The CMT sites are found primarily along the mainland coast and on islands (Figure 13), probably as a function of archaeological survey coverage. Site characteristics are summarized in Figures 13 through 19 and Table 9.

Slope

The CMT sites are found on slopes between 1% and 148%, with a median of 19%. Eighty-seven sites (56%) are on slopes of 20% or less, while 73% are between 0% and 30%. Figure 13 shows the distribution of recorded CMT sites, and Figure 14 shows their slope ranges.

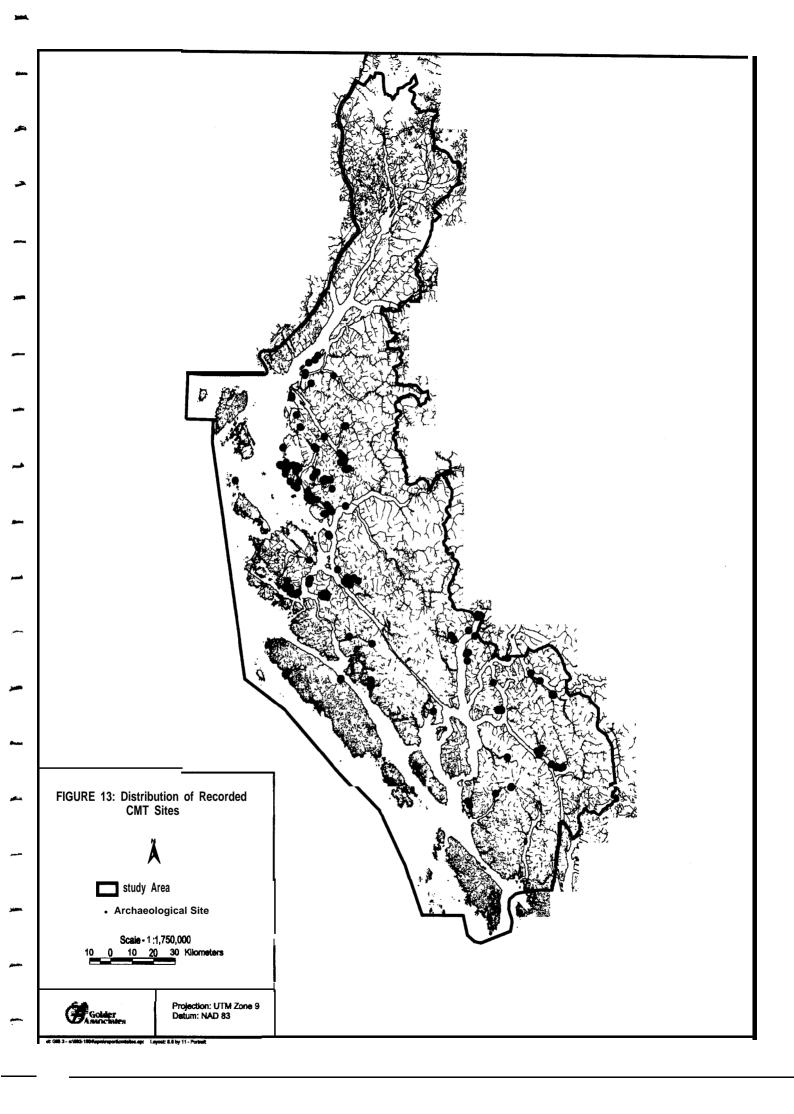
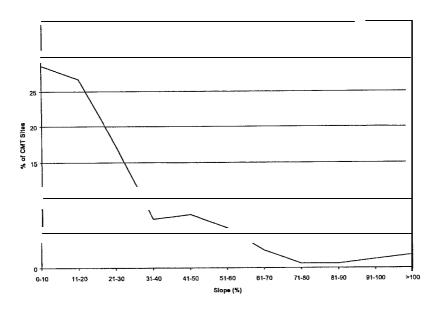


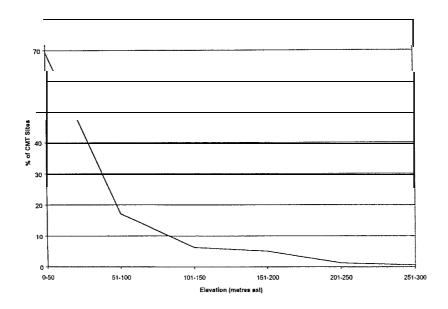
Figure 14 - Slope Ranges of CMT Sites



Elevation

CMT sites range in elevation from sea level to 261 m asl, with a median of 22 m. This pattern may be a result of limited archaeological inventory of higher elevations. Figure 15 shows the elevation ranges for CMT sites.

Figure 15 - Elevation Ranges of CMT Sites



Distance to Coastline

The CMT sites vary from 1 m from shore to over 2000 m, with a median distance of 69 m (Figure 16). Of the 32 CMT sites located more than 500 m from shore, 24 (88%) are within 200 m of a fresh water source.

Distance to Fresh Water

The correlation of CMT sites with fresh water is not clear. Seventy-five percent (n=119) are within 400 m of a source of fresh water, but only 34% are within 100 m (Figure 17). Based on a range from 1 m to over 2000 m, the median distance from a CMT site to fresh water in the test area is 163 m.

Forest Cover

The height class, age class and cedar content (expressed as a percentage of the stand) was determined for each CMT site, using Ministry of Forests forest cover data (Figures 18 through 20). Seventeen sites did not have forest cover attributes, because they are within TFL 25, for which forest cover data were not obtained. These sites were excluded from the analyses. Most (76%) of the CMT sites are in height classes 3 and 4, while an additional 16% are height class 2. Age class exhibits a clearer pattern, with 90% of the sites falling in age class 8 or 9 stands, which together are generally defined as old growth forest. Cedar composition ranged from 0% to 95%, with a median of 40%. Sites labelled as having 0% cedar apparently are mis-coded in the forest cover data.

Figure 16 -Distance from CMT Sites to Coast Line

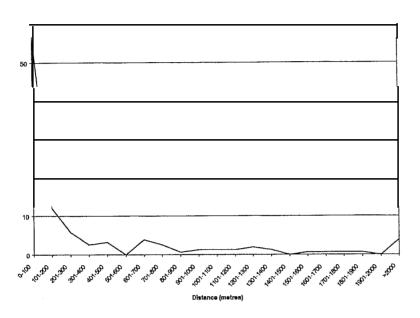


Figure 17 -Distance from CMT Sites to Fresh Water

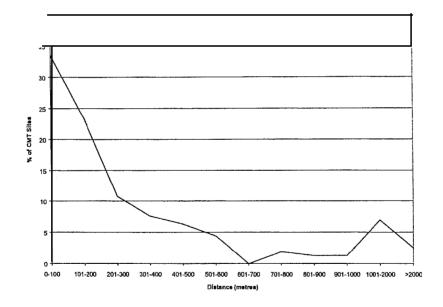


Figure 18 - Height Classes of CMT Sites

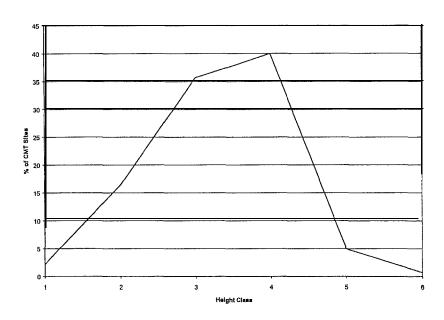


Figure 19 - Age Classes of CMT Sites

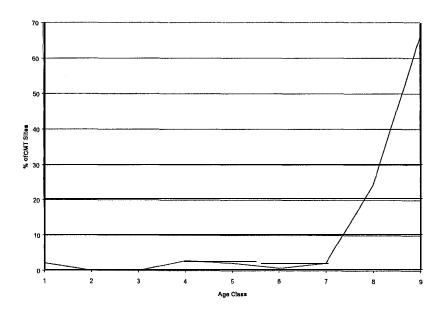


Figure 20 – Cedar Content of CMT Sites

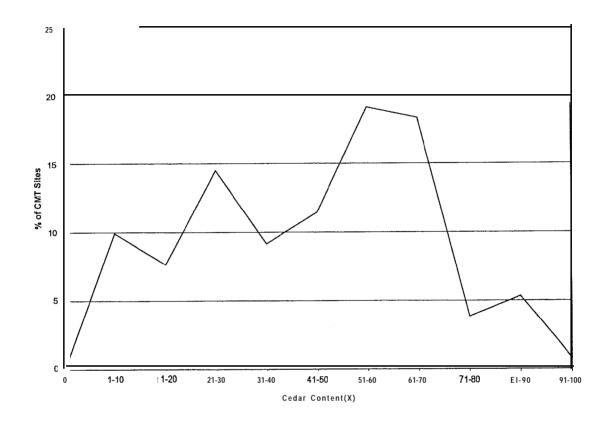


Table 9 Comparison of GIS Analyses for CMT Sites

	North Coast TSA Sites	North Coast Test Area Sites	Central Coast Sites		
Number of Sites	158	7	194		
Slope	19%	20%	23%		
Elevation	22 m asl	46 m asl	19 m asl		
Distance to Salt Water	69 metres	163 Metres	52 metres		
Distance to Fresh Water	163	75 metres	169 metres		
% Cedar	40	40	20		
Age Class	9	9	8		
Height Class	3	3	3		

Although the sample sizes for CMT sites are relatively small, the terrain analyses show remarkable similarities between the North and Central Coast sites. On the basis of currently available data, it is difficult to determine whether this is a true spatial pattern, or whether similar timber harvesting strategies in the two areas have focussed archaeological assessments on similar types of terrain.

7.3 Summary

The GIS analyses indicate that site distribution patterns are similar in the North Coast TSA to those observed on the Central Coast. Taken together, these two data sets provide a fairly substantial body of information for modelling, although the degree to which the data represent the entire study area, rather than selective archaeological inventory locations, has not been demonstrated. For this reason, it is important to attempt to incorporate some level of deductive reasoning into predictive models, and to avoid the temptation to model strictly on the basis of numerical data from known sites. The following section attempts to combine an inductive method, based on quantifiable landscape and site data, with a deductive approach based on an interpretation of past human activities and the environmental factors that influenced them.

8.0 **PREDICTIVE MODELLING**

Following a review of archaeological literature and other relevant documents, and GIS analysis of the landscape and recorded archaeological sites in the study area, it was concluded that predictive models developed for the Central Coast should be generally applicable to the test areas. The coastal habitation, inland habitation, and CMT models were initially run on the three test areas. As explained in the Central Coast AOA report (Golder Associates 1999a), the pictograph, petroglyph, and trails models were not successful, and they were not used for this study. As with the Central Coast models, the coastal and inland habitation models are general enough to account for a range of site types that tend to be spatially associated with habitations (e.g., rock art, burials, canoe runs, intertidal lithic scatters). The Central Coast subalpine model was also excluded, for three reasons: (1) only a small amount of subalpine parkland exists in the North Coast TSA, and access to it is difficult (Allen Banner, MoF, pers. comm. 2000); (2) the ethnographic and archaeological literature does not indicate substantial use of the subalpine; and (3) forestry impacts to high elevation parklands are minimal.

Model rules were divided into two classes, based on predicted archaeological site potential. The highest site potential rating (Class I) was assigned to locations that would best support the aboriginal cultural activities that are believed to have created archaeological sites. Similar, but slightly less optimal conditions resulted in a Class II (moderate site potential) rating. For example, the difference between Class I and Class II might be based on wider water buffers, a broader slope range, or inclusion of additional biogeoclimatic zones.

Modelling proceeded in an iterative manner, with the models being revised and re-run several times. Each time a model was run, the results were reviewed to ensure that the GIS was accurately reflecting what the model was intended to represent. For example, review of the first model run showed that the method used to calculate slope was not correctly identifying steeply rising shorelines in certain fjords. Adjustments were made to the model, and it was re-run. Ultimately, the habitation models were run four times.

The first generation CMT model was fairly general, and it predicted that a significant amount of land in the test areas had potential for CMTs. During a project meeting involving the MoF, the Archaeology Branch, and Heather Moon (an independent

consultant retained to review the project), it was generally agreed that the CMT results for the test areas indicated significantly more site potential than had been predicted for nearby coastal areas in B.C, and that an alternative model approach should be explored.

For the second CMT model, four separate scenarios were developed to represent potential for coastal and inland bark-stripped trees, aboriginally logged trees, and yellow cedar CMTs. Biogeoclimatic zones and subzones were added to the model to assist with the identification of appropriate forest stands, and hydrology buffers were adjusted. Overall, the second model run was considerably more specific than the first.

Following an evaluation of the results of both models, the second model was slightly revised and re-run. Results of this third model run were then extended to the entire study area. Following review by the Ministry of Forests, it was felt that the third CMT model was too exclusive, and that it may under-represent CMT site potential. Ultimately, the first generation CMT model was run on the entire study area, and it was found that the inferred over-representation inferred from the test areas was not indicative of the entire TSA. As a result, the first CMT model, which was initially developed for the Central Coast LRMP overview and later applied to the northern part of TFL 25, was adopted for this study.

The final CMT and Habitation models are defined below.

8.1 CMT Model

Previous archaeological work has shown that CMTs, and particularly bark-stripped trees, may occur in low frequencies almost anywhere on the landscape (Eldridge and Stafford 1996, Stryd and Eldridge 1993). However, some patterning is apparent, with the highest density of CMTs found to date being near the shoreline (but set back from the immediate foreshore), in major valley bottoms, near aboriginal village sites or other occupation sites, or along trails (Stryd and Eldridge 1993) Elevation was introduced because the distributions of red and yellow cedar are elevation-dependent.

Cedar content was considered to be important because the majority of recorded CMTs are cedars. Although CMTs on hemlock and other species have been reported, relatively little is known about their ages or distribution, and it was therefore considered prudent to

exclude them from modelling. Management considerations for these species are discussed in Section 11. The CMT model predicts that CMT site density will increase with cedar content, simply because more cedars are available for harvesting. However, this relationship requires field testing, and there is some evidence to suggest that CMT site potential is highest in areas with few cedars (Millennia Research 1996, Allen Banner, pers. comm. 2000).

Due to the extensive history of logging on the northwest coast, it was reasoned that the majority of intact CMTs will be found in older forest stands. Since the cutoff date for automatic protection under the Heritage *Conservation* Act is A.D. 1846, an emphasis was placed on age class 8 and 9 stands (141 years old and older) for identifying the zones with highest predicted CMT potential. GIS analyses of recorded CMT sites in the North Coast TSA generally supported these interpretations. Age classes 6 and 7 were added to the Class II model based on the forestry characteristics of recorded CMT sites. It should be noted that more recent CMTs may require management consideration under the *Forest Act* and/or the Forest Practices Code, as possible evidence of aboriginal rights.

Height class limits were set to exclude stunted trees at the upper limit of the cedar range, because these trees are often twisted and short, and therefore are less likely to have been used for aboriginal logging or bark stripping. It is noted that some recorded CMT sites in the study area are in stands less than 101 years old (age class 6), but they are relatively rare.

Slope, elevation, and distance to salt or fresh water were included on the basis of relationships inferred from the spatial distribution of known CMT sites in the study area and adjacent regions, and information found during the literature review. Cutoff values for the models were based on analyses of recorded CMT sites, with the exception of distance to fresh water, which was inferred from the literature (e.g., Turner 1998).

8.1.1 Model Variables

Based on the literature review, GIS analyses, and inferences about the physical requirements of bark stripping and logging, the following variables were predicted to correlate with the occurrence of recorded CMT sites:

- species composition (cedar percentage as defined by forest cover data)
- height class
- age class
- elevation
- slope
- distance to a river or lake, and
- distance to the coast

8.1.2 Model Rules

Based on the landscape characteristics of recorded CMT sites in the North Coast TSA and the Central Coast LRMP area, a review of literature pertaining to bark stripping and aboriginal logging, and an evaluation of other CMT models in coastal settings (e.g., Areas Consulting Archeologist 1998, Millennia Research 1999), the model shown in Table 10 was developed for culturally modified trees.

Table 10 Predictive Model for Culturally Modified Tree Sites

Class I (Highest Potential				
Forest Type	Species Composition >= 50% Cw or Yc AND Height Class >= 3 AND Age Class >= 8			
	AND			
Terrain	Slope = 0-30% AND elevation = O-1 100 metres asl			
	AND			
Hydrology Buffers	Distance to coast = O-300 metres OR distance to two line river or definite river or intermittent river or lake = 0-200 metres			
Class II (Moderate Potential)				
Forest Type	Species Composition >0% Cw or Yc AND Height Class >= 3 AND Age Class >= 6			
	AND			
Terrain	Slope = 0-90% AND elevation = O-1 100 metres asl			
	AND			
Hydrology Buffers	Distance to Coast = O-1000 metres OR distance to two line river or definite river or intermittent river = O-300 metres OR distance to lake = 200 metres			

8.2 **Coastal Habitation Model**

For the purposes of modelling, coastal habitation sites were considered to include villages, shell middens (with or without clear evidence of settlement), and house depression, within 2 kilometres of the coastline. Similar sites further inland were considered under the inland habitation model. Ethnographic information and existing archaeological data suggest that, with the exception of sites on the few major rivers and large lakes in the study area, the vast majority of habitation sites will be on or near the coastline. In an overview of Heiltsuk traditional territory, all recorded shell midden sites are within 2.4 kilometres of the coast line (Millennia Research 1997b), and this distance was considered in setting the arbitrary 2 kilometre cut-point to distinguish between coastal and inland habitation sites. The GIS analyses discussed above support these interpretations.

8.2.1 Model Variables

Given the maritime focus of North Coast First Nations cultures, it was assumed that most coastal habitation sites would be located on relatively flat landforms near the shoreline (but beyond the storm tide zone) and usually near a source of fresh water. Many of the recorded sites in the North Coast area are in sheltered bays on islands, and some ethnographic and archaeological references describe village sites on beaches on islands at the mouths of rivers (Capes 1976). It is recognized that there will be exceptions to these patterns, such as defensive/refuge sites, which may be surrounded by steep terrain, and to which water may have been transported from another source (Lepofsky 1985).

The variables used for the coastal habitation model were:

- slope
- elevation
- distance to coastline
- distance to fresh water (lake, river or stream), and
- size of island

8.2.2 Model Rules

Based on recorded site and landscape data, and inferences from archaeological and ethnographic information, the model shown in Table 11 was developed for coastal habitation sites.

Table 11 Predictive Model for Coastal Habitation Sites

lass I (Highest Predicted		
Potential)		
Case 1:		Distance to coastline = O-100 m
Mainland Coast		O R
and Islands		Distance to definite or intermittent river (IF within 200 m of
Larger than 50		coast) = O-100 m
ha.		O R
		Distance to double line rivers = O-100 m
		OR Distance to lakes (IF larger than 5 ha.) = $O-100 \text{ m}$
	AND	Slope = 0%-30%
	AND	Elevation = O-30 m asl
Case 2: Small		Distance to coastline = O-100 m
Coastal Islands		
(<=50 ha.)		
	AND	Slope = 0%-20%
	AND	Elevation = O-30 m asl
Class II		
(Moderate		
Predicted		
Potential)		
Case 1:		Distance to coastline = O-300 m
Mainland Coast		O R
and Islands		Distance to lake (IF greater than 5 ha.) = O-200 m
Larger than 50		O R
ha.		Distance to double line river = O-200 m
		Slope = 0%-30%
	AND	Elevation = O-30 m

Table 11
Predictive Model for Coastal Habitation Sites (cont'd)

Case 2: Islands		Distance to coastline = O-200 m
(no size		
restriction.		
Includes fresh		
water islands)		
	ANI	Slope = 0%-30%
	ANI	Elevation = O-30 m asl
Class II		
(Moderate		
Predicted		
Potential)		
Case 3:		Distance to coastline = 200-2000 m
Mainland River		
Valleys (lower		
reaches)		
	AND	Distance to double line river = O-100 m
	AND	Slope = 0%-30%
Class III		
(Lowest		All other lands
Potential)		

8.2.3 Inland Habitation Model

Habitation sites further than 2 km from the coastline were considered inland sites. Only 5 such sites have been recorded in the North Coast TSA to date, two of which are on small rivers, one is on a two line river, and one is on a lake. It was hoped this approach might help to highlight differences in settlement patterns between the riverine-adapted Nisga'a and their more maritime-adapted neighbours, and account for resource camps that may exist on lake shores. An all-encompassing habitation model designed to account for all types of habitations in the study area would have to be very general and likely would result in exaggerated site potential in many locations.

The information reviewed for this study suggests that, with the exception of sites on major rivers and possibly large lakes, inland habitations will be relatively rare. Where present, it is assumed that settlement sites would require level, well-drained ground and a

source of fresh water. Most inland habitations can be expected to have associated trails, especially where canoe access is restricted.

8.2.4 Model Variables

For the purposes of this study, all inland habitation sites are, by definition, at least 2 km from salt water, and marine islands are excluded. Additional variables used in the model are slope and distance to fresh water (lakes and double line, definite, and intermittent rivers). The model focuses on confluences of rivers and inlets and outlets of lakes, where slope conditions are appropriate for habitation.

8.2.5 Model Rules

Based primarily on inferences from archaeological and ethnographic information from other areas of the province, the following simple model (Table 12) was developed for inland habitations:

Table 12
Predictive Model for Inland Habitation Sites

Class I (Highest					
Predicted Potential)					
		Slope = 0-20%			
	AND	Distance lake (IF \geq 5 ha.) = O-100 m IF distance to definite			
		river = O-100 m			
		R			
		Distance to two line river = O-100 metres IF distance to			
		definite			
		River = 0-100 m			
		O R			
		Distance to two line river = O-100 metres IF distance to lake			
		= O-100 m			
	AND	Distance to coastline > 2000 metres			
Class II (Moderate		Slope = $0-20\%$			
Predicted Potential					
	AND	Distance lake (IF \geq 5 ha.) = O-200 m IF distance to definite			
		river = 0-100 m			
		O R			
		Distance to two line river = O-200 metres IF distance to			
		definite			
		River = $O-100$ m			
		O R			
		Distance to two line river = O-200 metres IF distance to lake = O-200 m			
	AND	Distance to coastline > 2000 m			
Class 111	1	All other lands			

9.0 RESULTS

Two datasets were produced: Dataset I consists of grids representing predicted archaeological site potential, and an accompanying database, and Dataset II consists of a database of recorded and reported archaeological sites. Recorded sites are presented as an ArcInfo point coverage.

9.1 Dataset I

Archaeological site potential was ranked as Class I, Class II or Class III, in order of relative predicted site potential. As defined in Section 1.2.3, Class I lands meet the most stringent model criteria, and are considered to have the highest site potential. It is also likely that these areas will have the greatest density and variety of sites. Overall, the risk of impacting an archaeological resource is greatest for developments within this zone.

Class III lands represent the lowest predicted site potential, and should hold few sites and a narrow range of site types. These lands are predicted to have the greatest physical constraints against human occupation or the preservation of archaeological sites. It is important to reiterate that not all site types could be modelled, and some sites may exist in Class III zones. However, it is expected that such sites will be relatively rare, and the risk of impact is considered to be lowest in Class III.

The total modelled area encompasses 1,969,723 hectares. The study area was divided into a 10 metre grid and each cell was assigned a score for each model. The grid values correspond with Class I, Class II and Class III archaeological potential classifications. The habitation site models were overlain on the CMT mode results for plotting, so that areas predicted to have potential only for CMTs are easily identified.

9.2 Area Results

The model results predict that 47,809 ha (2.4% of the study area) have high potential (Class I) for coastal habitations sites and 3 1,228 ha. (1.6%) have moderate predicted potential (Class II). For the CMT model, 69,823 ha. (3.6%) fall in Class I and 303,456 ha. (15.5%) are ranked as Class II. The inland habitation model predicted that 6,251 ha. (0.3%) have high site potential and 4,674 ha. (0.2%) have moderate site potential. The data are summarized in Table 13.

The model results cannot be simply summed, as there is considerable overlap between the habitation models and the CMT model (>32,000 ha, or 1.6% of the study area). The coastal habitation and inland habitation models do not overlap. The combined model results indicated that 107,666 hectares (5.5% of the study area) falls within Class I lands. Class II model results account for an additional 323,537 hectares (16.5% of the study area), for a total of 43 1,193 hectares of Class I lands (22% of the study area).

Table 13
Summary of Predictive Modelling Results

Archaeological Land Class	Area (Hectares)	% of Land
Class I	107,666	5.5
Class II	323,537	16.5
Class III	1,526,704	78 <u>j</u>

9.3 Capture Rates

The results of the predictive models were compared against the database of recorded sites to assess their success rate. Even though the models were based partially on the characteristics of recorded sites, a 100% success rate cannot be expected, as only a few spatial characteristics of the sites were used in the models, and any number of additional factors may have influenced site locations.

The initial capture rate calculations used non-buffered point coverages, which may underestimate the performance of the models. In the GIS point coverages, sites are represented by hypothetical points on the landscape. Using UTM coordinates taken to three decimal points, this point could actually represent only about a one centimetre area on the land. A second capture rate analysis used 100 metre buffers on the site points, effectively giving all sites a 100 metre radius.

Table 14 shows the success rates of the habitation and CMT models, using both points and buffered points. Where sites are less than 200 metres apart, the buffers overlap, creating a single polygon. For this reason, the number of habitation site polygons shown in Table 14 is smaller than the total number of sites. For CMTs, some sites with missing forest cover data were excluded from the point analysis. In some cases, nearby sites with overlapping buffers provided relevant forestry data for the shared polygon; consequently,

the number of buffered CMT sites is greater than the number of raw points. The percentage values for points and buffered points are directly comparable. Coastal and inland habitations were combined for the analysis, because only five inland sites have been recorded.

Table 14
Capture Rates of Predictive Models

Model	No. of Sites *	Class I Capture Rate (Points)	Class II Capture Rate (Points)	Total Capture (Points) (n)	Total Capture (Points) (%)	No. of Buffered Sites	Capture Rate (Buffers) (n)	Total Capture (Buffers) (%)
Coastal or Inland Habitation	343	287	34	321	94%	299	293	98%
CMT	167	45	72	117	70%	173	138	80%

In addition to the 80% of buffered CMT sites correctly predicted by the model, 24 CMT sites fell within areas predicted to have high or moderate potential for habitation sites. Consequently, 94% of recorded CMT sites are in locations predicted to have archaeological site potential.

The model results were visually compared with mapped areas identified by the Kitselas First Nation as having cultural importance While not all the areas were predicted by the models as having site potential, at least portions of each area were properly identified.

The model results were also compared with "non-site", or "null" data from locations that have been inspected in the field with no archaeological sites found. This information was obtained from consultants' reports and digitized. In cases where only a sample of the development are was inspected in the field, it was necessary to assume that the level of assessment was adequate to state that no sites were present in the remainder of the area.

As noted in Section 5.2, the digitized cutblocks encompass 4,512 hectares, within which 22 archaeological sites were identified. All areas outside the sites are considered to be "non-sites". According to the model results from the present study, only 2,299 hectares (51%) would have required field assessments. Based on buffered sites, all

22 archaeological sites in the assessed cutblocks were correctly predicted. Using raw points, 73% were correctly predicted.

9.4 Dataset II Recorded Archaeological Sites

Dataset II consists of a database of recorded and reported archaeological sites and trails. Recorded sites are presented as an ArcInfo point coverage. Reported and recorded trails are presented as a separate line coverage within Dataset II.

10.0 EVALUATION AND DISCUSSION

As intended, the model results indicated that the highest archaeological potential for most site types is near the coastline and on islands. This pattern is consistent with the ethnographically-reported Northwest Coast subsistence and settlement system, which focused heavily on marine resources. The CMT model results suggest that inland site potential may be considerable, despite the maritime orientation of the North Coast First Nations, and it is suspected that existing ethnographic and archaeological information under-emphasizes aboriginal use of these zones. For the more riverine-oriented Nisga'a, inland site potential is predicted to be greater than for the Coast Tsimshian, largely due to their geographic position.

Following review of a draft version of this report, one of the licensees expressed concern regarding the CMT model. One concern was with respect to the use of fresh water buffers in general, and specifically about the lack of stream differentiation based on navigability or fisheries values. As noted in this report, the history of archaeological inventory in the North Coast is strongly oriented to coastal areas, and relatively little work has been completed inland. This lack of representative sampling, combined with ethnographic references to the collection of bark well up drainages, indicated that a conservative approach to CMT modelling was warranted, until such time that additional data can be collected for inland areas. Following discussion with the Ministry of Forests, this approach was adopted, with the knowledge that the model probably over-predicts CMT potential.

Another comment related to the consideration of detailed information that may not have been available for the AOA. For example, licensees may be aware of localized forest cover or terrain conditions that are not adequately reflected in the TRIM or forest cover data. Similarly, First Nations may have knowledge of archaeological resources or culturally important areas that have not been formally recorded. These types of information could be incorporated into future model refinements, which should take place on a more localized scale. Specific information could be digitized and made available for land use planning, subject to potential confidentiality issues regarding culturally significant locations.

10.1 Study Limitations

This study provides a good basis for making archaeological resource management decisions in the North Coast TSA, and for guiding future archaeological inventory and impact assessment studies. However, the results are limited by certain factors, which are discussed below.

- 1. There was no field component to this study and consequently, the predictive models are untested.
- 2. Only GIS-ready data were used for this study, and the quality of the data varied. Some additional information sources, such as salmon, shellfish, and mountain goat habitat, prevailing wind directions, beach types, and traditional land use data could be useful for modelling, but they would require digitizing and/or authorization for use.
- The modelling results are affected by the resolution and accuracy of the digital elevation model, TRIM base map data, and forest cover data. It has been shown elsewhere (e.g., Golder Associates 1998, Arcas Consulting Archeologists 1999), that stand-level forest cover data may be insufficiently detailed for identifying small cedar stands that contain CMTs.
- 4. The existing archaeological site inventory for the area is very limited and biased toward shoreline sites. Archaeological information for inland areas is negligible.
- 5. Not all archaeological site types were modelled, due to inadequacies in baseline data. It is anticipated that certain un-modelled site types will be accounted for by the habitation and CMT models, but this assumption has not been tested.

The project would have benefited from more direct involvement of members of the First Nations whose territories encompass portions of the North Coast TSA. For example, traditional use information may have provided a more complete picture of aboriginal land/resource use in the study area.

11.0 RECOMMENDATIONS

The following recommendations relate to polygons of archaeological potential identified in Dataset I of the GIS component of this AOA. It is important to note that an archaeological overview assessment is an evolving planning tool that is subject to revision and update as new or better data become available. For this reason, some of the following recommendations are geared toward ground truthing and model refinement.

Outlined below are specific recommendations regarding Class I, Class II and Class III archaeological potential ratings, followed by general recommendations regarding future archaeological work in the North Coast TSA. The three land classes can be viewed as "risk indices" whereby the risk of impacting archaeological sites is predicted to be highest in Class I lands and lowest in Class III lands. In the absence of detailed field investigations, no location can be considered to be completely risk-free.

11.1 Class I Lands

Class I lands are those that satisfy most of the environmental criteria predicted to be associated with archaeological sites. Further archaeological assessment should be undertaken prior to development in any Class I zone. As a first step, a qualified archaeologist may undertake a field reconnaissance to field truth the terrain data used for modelling, and to visually assess the site potential of the development area. We recommend that such an assessment be conducted under a *Heritage Conservation* Act permit so that an impact assessment may be undertaken immediately, if warranted. If the field reconnaissance suggests that archaeological sites are unlikely to exist in the project area, then no further archaeological work would be necessary for that location.

All field assessments should meet or exceed Archaeology Branch guidelines, and should involve consultation with, and if possible, involvement of the appropriate First Nation(s). For cost effectiveness and scheduling purposes, it may be possible for an archaeologist to obtain a single permit for a number of planned developments (commonly known as a "blanket permit"). This approach may reduce the permit review and issuance time, and would streamline reporting by eliminating redundancy.

Areas rated as Class I for culturally modified trees <u>only</u> may receive a Preliminary Field Reconnaissance (PFR), in accordance with Archaeology Branch guidelines.

Reconnaissance typically involves less-intensive ground coverage than an AIA and does not include subsurface testing or other invasive techniques (and therefore does not require a Heritage Conservation Act permit). CMT reconnaissance should be conducted by a professional archaeologist or other individual with adequate training in CMT identification and recording (e.g., a trained local First Nations person or forestry worker). The objective of a PFR is to search for visible evidence of archaeological sites, and to evaluate the site potential of the local environment. A PFR may be adequate to assess a development area, or a detailed impact assessment may be recommended. A PFR should be adequate to locate and document any CMTs present.

One advantage of the PFR approach is that a permit is not required (as long as no subsurface testing is undertaken), and therefore it may be possible to expedite the assessment process. However, if dating of CMTs by a destructive method (e.g., increment borer or stem-round sample) is desired, it is strongly recommended that a permit be obtained. It is unlawful to alter an archaeological site with evidence of pre-1846 use or occupation without a permit, and invasive dating techniques constitute an alteration. Since it cannot be known in advance whether pre-1846 CMTs are present at a *site*, *we* recommend that dating be completed under permit to remove the risk of accidentally contravening the *Heritage Conservation Act*.

If site types other than CMTs are encountered during a PFR, an impact assessment should be conducted under permit by a qualified archaeologist.

It must be emphasized that the models are based on an assessment of the suitability of the terrain to contain preserved archaeological sites, but not all Class I lands will necessarily have sites.

11.2 Class II Lands

Areas rated as Class II are considered to have moderate archaeological potential and should also receive archaeological field inspection. A PFR is considered an appropriate level of investigation for all Class II lands, including those rated by the models as having potential for CMTs only. A PFR may lead to a recommendation for an impact assessment, or additional work may not be warranted.

Class II lands are predicted to have moderate site potential. It is predicted that fewer sites and fewer site types will be found in this zone than in Class I. From a risk management perspective, this land class offers the greatest challenges because the information available for modelling was generally inadequate to make a firm prediction.

A significant amount of land falls within the Class II CMT designation and, depending on the amount of development planned for these areas, it may not be feasible to conduct field studies over 100% of this area. If this is the case, three main risk management approaches are suggested:

- 1. a ground-truthing inventory of a sample of Class II lands could be undertaken to assess the model results. Based on the inventory results, the CMT model should be adjusted, if necessary
- archaeological impact assessments could be required for a sample of the Class II lands. For example, 50% of proposed roads and cutblocks falling within Class II lands could be selected for PFR, with the results serving as ground truthing inventory.
- 3. the District Manager may decide to manage only Class I CMT lands, accepting the risk associated with waiving the requirements for field assessments of lands ranked as Class II for CMT sites.

Option 3 is the least preferred of these strategies and carries the greatest risk to the Ministry of Forests. It is strongly recommended that any management approach that does not involve field assessment of all Class II lands should be developed in consultation with First Nations and the Archaeology Branch.

11.3 Class III Lands

Class III areas are considered to have relatively low archaeological potential due to environmental constraints on human use or on site preservation. No archaeological assessment is recommended for Class III lands. It should be noted however, that all site potential classes defined in this report are relative. Low potential does not mean *no* potential, and there is always the possibility that unanticipated archaeological sites may occur in Class III areas. Should field observations, consultation with local First Nations or other information sources indicate the potential for archaeological sites to be present in

a Class III or any other area, a field reconnaissance should be undertaken by a qualified archaeologist to evaluate the site potential of the area.

If archaeological materials are accidentally discovered during development, all work in the immediate area should be stopped or altered such that the archaeological site is not impacted. The District Manager, the Archaeology Branch and local First Nations should be contacted immediately to discuss appropriate site management measures. Emergency impact management measures, such as artifact collection, controlled excavation or CMT sampling, may be required to mitigate damage to any newly identified site(s).

11.4 Un-Modelled Site Types

Several site types were not specifically modelled due to a lack of information about their distributions, or limitations in the GIS data. Many of these site types, such as burials, lithic scatters, and possibly rock art will be relatively well accounted for by the habitation and CMT models. For the Central Coast LRMP area, over 80% of pictograph sites fell within areas predicted to have potential for habitation sites.

High elevation sites other than CMTs in the North Coast TSA may not be adequately considered by the models. If developments are planned in the limited subalpine parkland zone or in the alpine, archaeological reconnaissance should be considered in areas of gentle terrain. Forestry crews or engineers should be aware of the possibility of aboriginal trails, stone quarries/lithic reduction areas (represented by large amounts of flaked stone), cairns/bunting blinds, and cultural depressions (earth ovens or cache pits) in these areas, and should report them to the District Manager if encountered. We recommend that the District Manager require an archaeological impact assessment in such cases.

Non-cedar CMTs are likely to exist in the TSA, but current information is insufficient for modelling their distributions. Bark-stripped hemlock CMTs, in particular, are likely to be found, primarily near the shoreline, but possibly inland as well. Blazes (usually trail, trapline or territory markers), carvings (dendroglyphs) or paintings (dendrographs) on bark-stripped trees could exist in the area. Dendroglyphs and dendrographs would be rare, and of particular significance. Their locations should be reported to the District Manager, local First Nations, and the Archaeology Branch.

Maple, cottonwood and other trees were also used by aboriginal people, and some evidence of their use may be encountered. In most cases, cultural modifications of non-cedar trees either heal over or become otherwise undetectable in relatively short periods, so the probability of finding non-cedar CMTs of adequate age to be protected under the *Heritage Conservation* Act may be low. Nonetheless, the locations and characteristics of such trees should be recorded when they are encountered, and we recommend that First Nations be informed of their presence. If the modifications are recent, they may represent ongoing use of the resource, which could be subject to aboriginal rights issues.

11.5 General Recommendations

Ground Truthing and Field Data Collection

- The predictive models developed and implemented in this study have not been field tested. It is strongly recommended that a sample of Class I, Class II and Class III lands be inventoried, preferably using a probabilistic field approach, to provide reliable site and non-site data that can be used to test and refine the models. First Nations consultation and involvement should be an integral component of the inventory program.
- In addition to, or as part of the ground truthing inventory, a sample of old growth forests should be selected for probabilistic inventory to provide a larger CMT dataset for predictive modeling. We recommend that the sample focus on areas with red or yellow cedar, but other areas could be considered, in consultation with First Nations, to collect information on aboriginal use of other tree species.
- All archaeological impact assessments in the study area should include revisiting and updating site information (including mapping to current standards) for any recorded sites within the AIA study area.
- All future archaeological field assessments in the study area should include clear reporting of the terrain characteristics of examined areas, including slope, distance to water, forest cover and other variables used in predictive modelling, regardless of whether any archaeological sites are found. Survey coverage and site/non-site locations should be clearly mapped.

Data Improvement

 Ideally, individual CMT locations should be digitized where this information is available. This could greatly increase the amount of CMT data available for modelling.

Model Refinement

- The predictive models should be re-evaluated and refined as new data become available. It was not possible to exhaust all possible information sources or to digitize all mapped information for this AOA, but the models could be tailored and made more specific for particular operational areas.
- Future incorporation of traditional land use information could significantly benefit cultural resource modelling efforts. If made available by First Nations, the results of traditional land use studies should be added to Dataset II of this overview. If available in digital form, the TUS data could be compared against the model results to help refine their predictive ability.

First Nations Consultation and Training

- Ongoing consultation with First Nations regarding cultural heritage issues is of great importance. Detailed consultation was not undertaken for this project, but the AOA results can be used as a joint planning tool during government-First Nations consultation, allowing First Nations to view and comment on the assessed archaeological site potential relevant to specific proposed developments. Some First Nations have expressed an interest in training for local archaeological crews. This approach could provide a corps of knowledgeable personnel that can provide preliminary assistance in situations requiring rapid response, as well as assisting professional archaeologists with field projects.
- An archaeological overview was previously completed for the Heiltsuk Nation's traditional territory (Millennia Research 1997b). That study involved considerable in [put form the Heiltsuk Nation, and its recommendations should be considered when planing developments in Heiltsuk territory.

The results of this AOA should be of benefit to the MoF and the North Coast licensees for long-term planning, to prioritize archaeological management requirements over a period of years (the five year planning cycle, for example). In some cases, it may be possible to plan forestry developments in ways that avoid or minimize impacts to Class I or Class II lands, thereby reducing assessment costs. By using the AOA maps as a consultation tool, the MoF could work with First Nations to identify or confirm locations that have particular cultural significance, so that consultation and field assessments, if necessary, can be completed well in advance of development. All of these applications of the AOA deliverables could result in cost reductions, improved relations with First Nations, and more effective development planning.

12.0 CLOSURE

This report was prepared for the use of the Ministry of Forests and the Archaeology Branch. While its use by First Nations or other appropriate agencies is encouraged, any decisions made on the basis of the report by third parties are the responsibility of such third parties. This study was not intended to address issues of traditional land use or aboriginal rights or title, and it is presented without prejudice to land claims or treaty negotiations.

We trust that this report meets with your current requirements. Should you have any questions, or require further information, please contact the undersigned.

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APPENDIX 1
GLOSSARY OF TECHNICAL TERMS

Aboriginally-logged tree: A tree that has been felled, planked or otherwise modified to obtain wood by First Nations people.

Adze: A woodworking tool typically consisting of a wedge-shaped ground stone blade hafted or bound onto a wooden handle.

Archaeology: The study of human cultures though the material remnants of their activities.

Artifact: A portable object manufactured or intentionally modified by human action. Examples include stone tools, cedar baskets and wooden utensils.

A.S.L.: Above Sea-Level, based on the position of the sea's surface at mean level between high and low tide.

Bark-strip scar: A section of a tree in which the outer bark has been removed, exposing the underlying wood.

Biface: A general term for stone artifacts that have been modified on two opposing sides, or faces. Examples include stone projectile points and knives.

Biogeoclimatic zone: An ecosystem classification scheme based on vegetation, soils, topography and climate.

Blazed tree: A tree displaying chop marks used to indicate a boundary, trail, trapline or other feature on the landscape.

Borden Number: A system for numbering archaeological sites which divides Canada into a series of rectangles based on latitude and longitude. Each rectangle (or Borden block) is given a four letter code and sites are numbered sequentially as they are recorded in each block. For example, FcSm-11 is the Borden number for the Tsini Tsini site near Bella Coola, B.C.

B.P.: Before Present; a dating convention often used with radiocarbon dating. "Present" is universally considered to be A.D. 1950.

Burial Site: A site used for the placement of human remains. Some sites referred to as "burials" do not actually involve burying the dead. A number of different burial practices were used by aboriginal people, including cremation, interment in trees, rockshelters, grave houses and cemeteries. In many cases, the remains were placed in cedar boxes prior to interment.

Cache pit: An underground storage feature, usually used to preserve dried food, but also sometimes used to store tools and other items.

Canoe run: A long narrow beach area cleared of rocks to facilitate the landing of boats on shore.

Cobble Tool: A tool produced by striking flakes from the edge of a cobble to produce a working edge.

Culture: 1. A pattern of human activity transmitted between individuals by teaching; includes both material culture (e.g., artifacts and features) and non-material culture (e.g. practices and beliefs). 2. A term used by some archaeologists to refer to an assemblage of cultural material recurring in a restricted geographic area within a specified time period.

Culture History: An archaeological construct used to describe cultural changes over time, often based on variations in artifact styles.

Culturally Modified Tree (CMT): A tree that has been intentionally altered by First Nations people as part of their traditional use of the forest. Examples of **CMTs** include bark stripped trees, blazed trees, planked trees and notched trees.

Dendroglyph: A carved tree used for a traditional First Nations purpose, such as marking an important cultural location or a territorial boundary. Also sometimes called an arborglyph/arboriglyph.

Dendrograph: A painted tree used for a traditional First Nations purpose. Also sometimes called an arborgraph/arborigraph.

Dentalium: A long, thin mollusk shell used for ornamentation by Northwest Coast cultures; considered a wealth item and sometimes used as a form of currency. Dentalium is known to have been traded widely in pre-contact times.

Ethnography: A detailed descriptive study of a culture through participant-observation techniques, including interviews with community members.

Ethnohistory: The study of the past using both non-western, indigenous historical records (particularly oral traditions) and early historic written records.

Eulachon: A fatty type of smelt, highly valued by First Nations along the Northwest Coast. Various other spellings are common, including oolichan and ooligan.

Eustatic: Pertaining to changes in absolute sea-level on a global scale, and not regional changes produced by localized movements of land or the sea floor.

Excavation: The controlled and systematic removal and exploration of subsurface archaeological deposits.

Fauna1 Remains: The remains of animals, fish or shellfish, found in archaeological deposits which have not been intentionally modified for use as tools, ornaments, etc.

Feature: A cultural component of an archaeological site, such as a housepit or hearth, that cannot be removed intact from the site.

Fire-cracked rock: Stone that has been altered as a result of rapid or alternate heating and cooling, caused, for example, by stone boiling or in campfires.

Fish trap: A wall of loosely piled stones used to capture fish feeding in the intertidal zone, sometimes incorporating perishable components such as stakes, nets and basketry traps.

Fjord: A long, steep-sided coastal inlet produced as a result of intense glaciation of a previously existing river valley.

Flake: A piece of stone intentionally removed from a core during the manufacture of stone tools. Flakes were sometimes used as expedient tools and may show evidence of retouch or use wear.

Geographic Information System (GIS): A computerized database and analysis system with the primary functions of capturing, storing and manipulating geographic information. Geographic information contains a combination of location, attribute and topographical data.

Glacier: An extended ice mass that originates as compacted snow at high mountain elevations. When the ice achieves a certain depth it will begin to move from its point of origin.

Grease trail: A trail used by aboriginal people as part of a regional exchange system; the term is a reference to eulachon oil, a commonly-traded commodity.

Groundstone: A class of stone tools, manufactured by pecking, grinding and polishing to achieve the desired shape.

Ground truthing: Field investigations designed to assess the accuracy of inferences or predictions made about a dataset. Ground truthing is often used in cultural resource management to test the results of predictive modelling studies.

Historic site: A site dating from the period following early contact between First Nations and European or Euro-American cultures. Includes sites produced by Native and non-Native activities.

Holocene: A geological term referring to the post-glacial period spanning approximately the past 10,000 years, following the Pleistocene Ice Age.

Impact Assessment: In archaeology, a study designed to assess possible impacts of proposed developments on archaeological resources. Impact assessments typically incorporate documentary research, field inspections, and other lines of inquiry. Recommendations regarding the significance of any archaeological resources encountered and resource management strategies are usually provided.

Inventory: The compilation of information on archaeological resources within a given project area, through documentary research and field investigations, often supplemented with interviews. Inventory does not typically include an assessment of the significance of these resources or of potential development-related impacts upon them.

Isostatic: Pertaining to sea-level changes resulting from the tendency of the earth's crust to maintain a state of equilibrium, in which forces tending to elevate balance with those tending to depress. For example, continental plates may be depressed under the weight of glacial ice, and rebound following ice melting, resulting in variations in relative sea-level.

Lithic: Of, or pertaining to, stone. In archaeology, a general term for stone tools and debitage.

Microblade: A small parallel-sided blade removed from a core using a distinctive "punch" technique. Microblades were typically set into bone or wood handles to form cutting tools.

Midden: A deposit of soil and cultural debris produced as byproducts of human activities. Middens of clam and mussel shell, often containing artifacts, are common on the coast of British Columbia.

Mitigation: Archaeological work required to lessen the impact of a development on an archaeological site; typically consists of the excavation of the site or a representative sample thereof.

Old growth: Natural stands of old and young trees and their associated plants, animals and ecological systems, that have remained essentially undisturbed by human activity. The age and structure of old growth forests varies by forest type and between biogeoclimatic zone.

Oral history: A method by which aspects of an individual's life experience and cultural knowledge are collected by an interviewer.

Oral tradition: A non-material process of creating, transmitting and preserving cultural knowledge across generations.

Overview: An assessment of the archaeological resources present in a defined study area. Typically includes an assessment of the potential for unexplored areas to contain archaeological sites

Pebble Tool: A common term synonymous with "cobble tool". A pebble tool may be bifacially or unifacially worked, often with the original rounded cortical portion opposite the working edge left unmodified.

Petroform: An alignment of rocks intentionally produced by human activity, such as a stone wall fish trap or canoe run.

Petroglyph: An image carved or pecked into a rock surface, sometimes enhanced with pigments.

Pictograph: An image painted on a rock surface, typically using red ochre pigments.

Planked tree: A log or tree from which a long, flat piece of timber has been removed.

Pleistocene: The most recent geological period of glaciation, beginning about 1.6 million years ago and continuing until the onset of the Holocene between 13,000 and 10,000 B.P.

Post-contact: The period of time following early contact between First Nations and European cultures. Contact occurred intermittently over a period of approximately 50 years, between the late eighteenth and early nineteenth centuries. Written documents, in conjunction with archaeological data and oral tradition, can be used to study this period.

Potlatch: A feasting complex that is the central social and political institution among First Nations of the Northwest Coast and portions of the adjacent Interior Plateau, which employs the reciprocal redistribution of material goods to establish and reinforce sociopolitical order.

Pre-contact: The period of time prior to the earliest contact between First Nations and European cultures, for which written documents are unavailable. Research into this time period relies on archaeological information and oral tradition. Contact occurred intermittently over a period of approximately 50 years, between the late eighteenth and early nineteenth centuries.

Predictive Model: A construct developed to make inferences about unobserved phenomena based on the observed characteristics of similar phenomena. In archaeology, models are often used to predict site distributions in areas that have not been examined in the field.

Probabilistic survey: Archaeological field inventory involving the random selection of survey units with the intention of eliminating judgmental biases regarding site distribution and location normally inherent in archaeological survey. Typically, the study area is divided into units of high, moderate and low archaeological potential, based on topography, physiography, and other factors, and specific units are then randomly selected for field inspection.

Projectile Point: A sharpened implement used to tip a projectile such as a spear, arrow or dart. Projectile points were typically made from stone, bone, wood, shell or metal.

Quarry: A source area for lithic materials used in the production of stone tools. Such areas are often characterized by dense concentrations of flaking or chipping debris.

Radiocarbon Dating: A technique used to determine the age of organic material through analysis of the proportions of naturally-occurring radioactive carbon isotopes.

Reconnaissance: Non-intensive field investigation designed to assess the archaeological site potential of landforms within a prescribed area. Reconnaissance typically does not involve subsurface testing.

Rockshelter: A small cave or rock overhang used for shelter, habitation, or human burials.

Significance: In cultural resource management, the relative scientific, cultural, public, economic and historic importance of an archaeological site.

Site: A place exhibiting physical evidence of past human activity.

Stratigraphy: The layering of natural and cultural subsurface deposits in archaeological sites.

Subsistence strategy: A cultural system for obtaining and processing food and raw materials.

Tapered bark-strip: A relatively long bark removal feature which narrows to a point at the upper end.

Test hole: A deep cut or chop into a tree, to check the soundness of heartwood. Test holes have been found on standing trees, on windfallen trees, and on sections of aboriginally logged trees

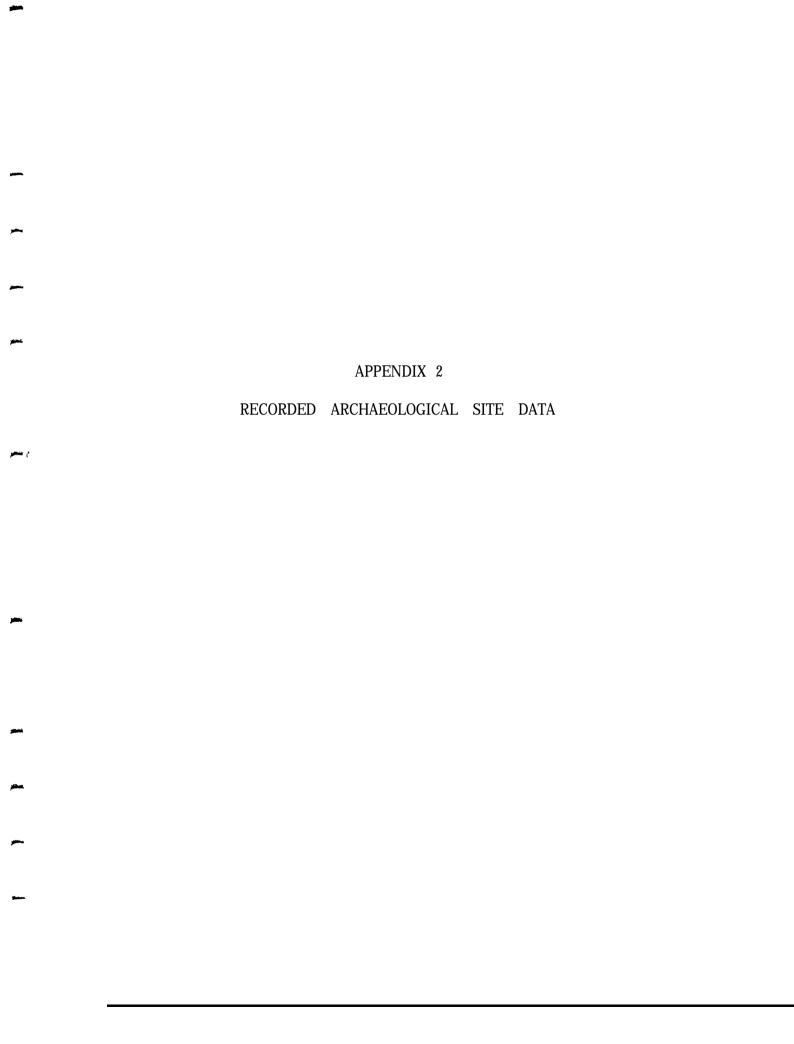
Topography: The physical features of an area, for example mountains and rivers.

Traditional Territory: An area used by a cultural group for subsistence, ceremonial and other cultural practices.

Traditional Use Area: A natural area used by First Nations people to practice traditional activities including, but not limited to, resource gathering (e.g., plant gathering, hunting, fishing, etc.), raw material procurement (e.g. stone quarries, timber or bark harvesting areas, etc.) and ceremonial or spiritual activities. Traditional use sites may lack physical evidence of their use, but maintain cultural significance to a living community of people.

Uniface: An artifact that has been modified, usually through the removal of flakes, on one face or side of its cutting edge only.

Weir: A type of fish trap consisting of a line of wooden stakes placed at the mouth of a river designed to trap spawning salmon, often incorporating additional elements such as nets or basketry traps.



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	7)11-903 1024-00 Sevineous 1971-38 FITC-903 349-95 GCT-0-014 13,27 GSTR-904 55,56 GSTR-9092 5,04 GSTR-9092 12,03 FSTR-9091 24,75 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 240,07 FSTR-9091 10,050 GSTR-9091 10,566 GSTR-9091 10,566 GSTR-9091 2500,100 FSTR-9091 10,566 GSTR-9091 10,566	002 76,765 852 2001:000 1515 348 599 279 2001:000 1515 348 599 279 2001:000 1547 2001:000 1547 2001:000 1547 2001:000 1551 2001:000 1551 2001:000 1561 2001:000 1575 2001:0000 1575 2001:000 1575 2001:000 1575 2001:000 1575 2001:000 1575 2001:000 1575 2001:000 1575 2001:000 1575 2001:0000 1575 2001:0000 1575 2001:0000 1575 2001:0000 1575 2001:0000 1575 2001:0000 157	1023,505 93,2,303 1325,883 2001,000 1318,725 1897,540 1115,079 767,237 255,332 388,401 1085,262 1208,038 1306,405 628,448 110,232 1306,113 1267,655 571,173 176,317 176,317	92,194 76,290 76,320 76,320 1148,972 2001,000 1574,814 82,804 82,816 83,436 985,609 1290,463 85,102 689,163 118,908 1435,532 89,008 213,532 90,850 91,797	569-629 200 199 580 129 595.613 595.613 595.613 52.206 62.206 62.206 62.206 63.514 63.505 65.051 531.047 182.803 395.718 571.534 935.728 935.728 935.728 935.728 935.728	75-504 76-708 76-320 79-567 62-572 82-804 82-816 83-629 85-102 85-102 86-373 87-767 89-006 89-709 90-859 90-859 91-787 91-787 91-787	T T						T T T T T T T T T T T T T T T T T T T					T				0	44 50 11 200 22 555 24 555 25 55 26 56 26 66 27 56 28 57 28 57 29 66 20 66 20 66 20 7 20	21.574 51.734	8.607 (CWH vm 51.352 (CWH vm 15.352)																									

ZBN DIST_CST DIST_DBLRVDIST	LAKE DIST DEFRI	DIST INTRV DIST FRE	SHPRECONTAC	HISTORIC	CANCE RUN	FISH TRAP	FISH WEIR	BURIAL,	CMT	PICTOGRAP	PETROGLYF	HABITATION	DEPRESSIO	SHELL MIDE	LITHIC	TRAIL	AGE CL	HT CL_IN	CEDARPCT	ELEVATION S	LOPE BIOGEO
	2001.000 972.393				T "												6	1	2 80	6.346	13.456 CWH vi
	0001 0001 1608 685	95 377 95 3	77														0) (25,740	56.589 CWH vi
	904.734 96.299	96,473 96.2	99														a	ľ	0 0	67.972	57.493 CWH vr
	207 600 159 397																9		5 (MH ma
	2001.000 711.480	97 009 97 0															9	}	2 6	59.604	35 214 CWH v
2001300	425.346 699.834	97.035 97.0							Ŧ								9		4 10		148.137 CWH vi
	588 109 198 872	97.810 97.8				T		-									0		01 0		7,438 CWH vt
		220.462 00.0															9		1		7 726 MH mg
	113,344																-	·	1 6/	·	14 F72 CWH v
	2001.000 2001.000	90.746 90.7							· .												
	926 477 521 849	512 562 100 1															^	1	<u> </u>	15 162	32 350 CMH m
TT 304 35 135 2001,000	455,358 605,049	100,564 100.5	64 T			7			į.										4	12 752	11 382 CWH W
CLT-064 12.458 2004.000 1	506 622 1033 507	102 412 102 4	12						т									i .	3 3	25.856	45 075 CWH vi
FT., 991 35.997 2001.000 1	C13.478 103.880	SE4.318 103.9	190 T			7											٥) (1.708	12.085 CWH V
T 504 2001 000 1088 647	R52 R36 103 101	162 827 103 1	01						Ť								9		5 16	77.617	24 289 CWH vi
MT-015 4 530 2001 000 5	104 000	676.075 101.0	- T		-			-				7		T				i		5 704	1.076 CWU.
	701 000 900 727	105 157 106 1	E7						7			`								47.050	14 033 CWH vi
1000 000 000	015.757 1042.404	106 595 106 0				-						-		*			İ			11.586	25.822 GWH v
4,320 2001.000	010.101 1012-04	10000	35 1											-							
kTr-004 29.710 094.101 1	100.370	204.942 106.9	701														_ •			11.351	13.561 (0.011.4)
	1334.397	100.419 100.4		—															*	0.140	8.745 OWI 1 sa
	271.400 315.236	109.413 109.4															3		· 3	53.060	14.567 OWI I VI
	251.037 110.274	1174,295 110.2	74 1																· ·	12.079	5.113 CWI I VI
971-003 CO1.G47 112.884 2	981.900 2001.000	172, 176 112.8	84														ż		2	6.273	9.325 CYVI W
52.580 2001.000	573.448 1031.342	113,504 113.5	04		==		=		7										3	22.023	24.102 CWH VI
ETH-020 2001.000 115.400	393.001 340,441	351, 154 115.4	00	F	=												- 6	F .	, 	+	1997 1781
TH 905 105.725 2001.000 2	991.900 233.000	110.517 110.5	:		=						=								_	119.917	101.443 CWH VI
g71001 13.001 2001.000	978.728 115.710	072.943 119.7		1		-													,==	7.672	24.233 CWH VI
~	276.995 440.831	217.023 116.1							-								<u>.</u>	-	,,	10.078	2.751 CWH VI
				·								·									
		090.021 110.0																	1 .	9.546	5.591 CWH VI
	864.659 119.532	120,195 119.5							<u> </u>								9		30	87.654	49,058 CWH vi
	296.639 120.056	851,114 120.0												T			9		3(15.182 CWH VI
	728.997 950.147	120,249 120,2				1			T		Υ						1		<u> </u>	-3.345	24.480 CWH vh
(TE-001 142.357 2001.000 1	946.412 127.751	120.286 120.2	26 1									T .		Ţ			0) (LT	CWH vn
10-007 31.350 791,160 Z	001.000 120.662	154.566 120.6	62														9		2	2.472	4.741 CWH vn
T8001 107:541 415:077	943.210 427.504	120.930 120.9	30														0		oi c	1	CWH vn
	720.425 121,165	181.232 121.1		-	=		=										0	_) (CWH vh
	333,252 121,419	331.062 121.4			=		\vdash			\vdash							- 7		7) (23.938	23.709 CWH vh
	248.200 202,941	121.815 121.8																		98.241	
																	5		3 10		18.709 CWH vn
	150.392 598.092	122,502 122.5															9		50	8.505	17.768 CWH vh
	241.902 122.548	1479.928 122.5												T			9	_	60		21.403 CWH vh
	740.923 122.606	260.448 122.6							T								6		3 70	61.624	27.224 CWH vi
	600.829 123.795	484.558 123.7				T I											0) (8.232	2.087 CWH vh
hTH001 2.397 2001.000 2	001.000 124.306	536.888 124.3	06 T			T								T			В		90	6.707	5.217 CWH wr
6TT-005 2001.000 124.846 2	001.000 317.333	276.217 124.8	46														9		2 40	65.195	94.938 CWH vh
	773.174 244.562	125.000 125.0							ī								9		3j 53		33.415 CWH vh
	454.634 155.527	126.042 126.0							T					1			8		50		16.465 CWH vh
	783.197 620.999	366,961 127.9											-	т			0) 0		39.656 CWH vn
	414.105 1211.651	129.985 129.9												T			9		1 60		
	132.289 421.458	260.686 132.2			+								-				9		80		19.169 CWH vh
		,						\vdash	-								9				
	096,367 627,884	132.363 132.3							<u> </u>								0) 0		CWH vh
	001.000 134.205	294.155 134.2												T			9		80		18.286 CWH vh
	001.000 460.712	134,383 134.3					9							Т			8		0		5.494 CWH vh
bTr=015 16.008 2001.000	502.350 517,810	136,088 136,0	88 T											T			9		70	16.590	21.752 CWH vh
Th-001 30.899 2001.000 1	131.801 1238.219	136.346 136.3	46 T							т							9		1 70	29.836	82.838 CWH vh
Tf-004 58.176 2001.000 1:	962.593 1070.947	136,750 136,75	50						T								0	() 0		CWH vi
	001.000 327.755	137.074 137.0							T		i						0) 0		54,197 CWH vn
	001.000 820.586	331,749 138,2			•			,	-								9		6.5		44,237 CWH vi
	194.130 138.350	538.945 138.3				7											0		0 0		16.704 CWH vh
	001.000 369.361	140.771 140.7			-				-								9		60		32.130 CWH vi
	456,484 613,796	141.670 141.6		\vdash			\vdash							1			0		0	1117.0	33.053 CWH vi
	001.000 1161.080	142.118 142.1		\vdash					ļ	لــــــــا							0		1 0		13.499 CWH vi
	885.685 283.166	142.354 142.35		لــــــا													0				4.818 CWH vi
	514,498 1191,593	142.482 142.4												T			3		30		7.788 CWH v
F-609 67.048 923.585	587.909 143.198	368,262 143,1	98						Ŧ								9		90	17.996	20.281 CWH vi
Th-016 2001.000 143.364	385,672 177.725	227,122 143,3	64														0	(1 0	1	MH mn
	650.472 2001,000	146.536 146.53										r i		τ						6.823	11.279 CWH vi
	001.000 148 743	217.965 148.7			1				•												\$1,450 Orn 1 vi
					!	_	-		T .	\vdash										33.205	25.541 CWH vr
		343,356 152.1 190.223 152.6						_	Т								9				17.767 CWH VI
												-									
	230.2MI 154.600	394.022 154.60								I		Т 1		Т			0			4.548	4,104 CWH vi
	540.682 546,331	154.811 154.8]				1	1	1					8		80	26.386	76.505 CWH vi
Tm-009 98.589 2001.000 1	750.545 156,032	513.382 156.03	32		1				T I								9		70	91.813	44.628 CWH vi
	640.095 156.228	504.984 156.2			i						T						9		50		5.611 i CWH vi
	842.307 1142.394				1							1					o			519.754	104.716 CWH vi
	121.350 771.081	156.851 156.8							ir i			-					9				48 223 CWH vi
1-1006 ; 30,396; 2001.000 1		10.0												==			0		0		5 257 CWH vit
	428 228 4426 700	158 001 159 00	nti '																		
	428 228 1136.762	158.001 158.00 158.372 158.3															0				25 958 CWH W

Taran and Javan and	TINDT LAKE INOT DEED	inor armain		dinament 1	1			T	Table			,		,	,	,					
ZBN DIST_CST DIST_DBLF GaTp-004 17.371 2001.00	RV DIST_LAKE DIST_DEFR*		160.134 T	HISTORIC	CANOE_RUN	FISH_TRAP	FISH_WEIR	BURIAL	CMT	PICTOGRAP	PETROGLY	HABITATION	DEPRESSIO	DIM_LIJBHS K	штніс	TRAIL				ELEVATION S	
FgTk-003 32 683 2001.00			160.380				 	 	r	<u></u>				T				9) 3			7.465 CWH vh 2
FkTm-005 688.799 777.89			160,722	1		— — —	 	 	T					+		 	<u> </u>	8 3	50		5.953 CWH vh 2
FiTd-002 38.507 864.28			162.092					i	т						-			0/		90.384	39.761 GWH vin 2
FTI-002 177.714 2001.00			162.780 T	1			 			T		-						9 4			20.223 CWH vm 1
GcTm-006 13.447 2001.00			163.109	 			+	 	Ìτ	i -	i			 		+	 	9 3			22.898 CWH vh 2
FjTh-006 619.188 2001.00			165,504				 	†	T	 			l	<u> </u>		+	 	91 3	90		51.413 CWH vh 2
GgTi-002 2001.000 519.41			166.025 T	†			 	 	·	 					-				- "	55.865	33.235 CWi vi 2
GbTn-023 11.382 2001.00			166,579 T											 						-	0W1 no 1
Fg1f-005 85.228 541,12			166.813					 	Τ			l		+		 			*	3.101	10.016 DW11 vh 2
FhTh-002 20.407 2001.00			168,239 T			-	 	† 	 			-				ļ		•	100	25.019	28.006 CYVH VII 2
GbTm-010 317.648 2001.00			169.636					1	т		i —									11.413	4.842 GVVH VH 2
GdTo-037 0.309 2001.00	0 1551.640 1559.877		169.823 T					1						T-		1			30	222.714	37,943 CVVM Vn 2
GbTo-055 5.570 2001.00			170.368 T	1				1	+					Ļ		!		•		15.326	10.331 CYVH VII 2
FITp-001 0.520 2001.00			170,730 T	1				Т	il .					1				2	40	13.029	27.717 CWH Vh 2
11111002 1000,000 1000,00			110,033	+			·	ł'	1					1	l	H	}	2	65	119.993,	-21.461 CWH vh 2-
FkTg-001 396.750 2001.00		177.623	177.623]		Т			,	1	J	Į	I	,	4	1 30		51, 249 CWH vh 2
FITm-006 188,505 2001.00	0 1755.456 1303.506	178.149	178.149						T	Ϊ	ĺ			i		T		3			15.182 CWH vh 2
GdTo-054 210.035 2001.00	0 2001.000 1333,473	178.569	178.569						T					1		 		2			18.025 CWH vh 2
GbTh-001 2001.000 181.93		410.174	181.930													 		2			
FITp-016 6.290 2001.00			183.293 T			T										†		0 0	0		MH mm 1
GcTri-013 15.736 2001.00			184.510 T				1							т		1		3 3			5.698 CWH vh 2
FkTa-027 3.881 2001.00		184.602	184.602 T	1										İT					30		1.991 CWH vh 2
FeTg-003 15.811 2001.00		185.940	185.940	11															75	11.935	3.442 CWH vh 2
Fftn-001 0.500 2001.000		205,766	186.533 T			T															19.508 CW11 vir 2
FiTe-009 27.617 1446.11		561,470	187.601 T			T		1				i		i						9,366	7.137 CW/ Vn 2
FdT+008 2001.000 2001.000			109.104																	12.437	3,707 CVYH VN 2
FdTd-004 22,000 2001.00			189.283													<u> </u>					CVVH Vh 2
GbYo-068 138.629 2001.000		189,833	189.833 T											7					10	3.732	5.162 CWH VH 2
Galk-003 2001.000 313.729			190.323														•		40	20.927	5,200 CWH vh 2
GbTo-078 1.844 2001,000			191.437 T					l .				-	7	7					40	47.023	33.897] MH HM]
GbTo-081 4.945 2001,000			192.631 T											7				3	85		6.410 CWH vh 2
FITp-013 2.572 2001.000			193 361 T														- 3	3	40		7.463 CWH vh 2
FlYm-008 165.762 2001.000			193.777				ļ	1	т									2	60 60		2.820 CWH vh 2
Gelfn-017 1.374 2001.000		193,939	193 939 T									i		Ŧ							14.184 CWH vh 2
C=T=.001 12 222 2001.000		194,004	194,004 T				_	-						-			•	3	0	5.328	15.354 CWH vh 2
GaTn-008 5 273 200 1 000		199 531	199 531 T											÷					80	12,031	18.688 CWH vm
GeTe-044 1.132 2001.000	2001.000 527.046	199,724	100.724 T	1 1					Ť	-		i		Ŧ				- 2		9.419	4.118 CWH vh 2
GhT+032 27.285 2001.000		200,041	200.041 T																	10,269	6,192 CWH vh 2
EjT[.006 132 564] 2001.000	1708 185 265 454	200 132	200 132						7						·			- 1		10.269	18.189 CWH vh 2
EITp-003 5.001 2001.000	139.274 200.500	120,160	200.500 7	F I							===	-						3	80	5.481	CWH vh 2
C(TREO) 166.065 200.560		434.881	200.650														- 0	0	- 80	10.936	9.935 CWH vh 2
ELT-028 23.744 2001.000		1281.996	202.655 T	1	-	1 						- i					<u> </u>		0		3.080 CWH wm
EdT⊩005 1.318 2001.000			204.465														9	2	86	5.503	5.727 CWH vh 2
GdTs-025 9.429 2001.000			205.236 T	1										- I					80	0.070	CWH vh 2
EqT⊕003 21 193 2001 000			205.477 T	1		-											0			9.270	8.793 CWH vh 2
EnTI-002 36 589 2001 000			207.000										i				8			20,790	5.820 CWH vh 2
TT-007 37.806 2001.000			207.162		-				-								9		62		23.982 CWH vh 2 61.936 CWH vh 2
ThTm-001 7 4 12 200 1 000		820,361	212.429 T		- 1			ř	ii								9				
3hTs-084 4 956 2001 000	358 non 212 713	920.855	212.713 T	# 1					H					 		-	9	3	60		2.966 CWH vh 2
12.500 2001.000	475.540 437,242	215.258	215.258 T]	+	-											3	2.	30 75	13,766	11.499 CWH vh 2
ET-002 23.889 2001.000	7 00 1001 011.110	216.606	216.696 T	H					H					T i			9				15.812 CWH vh 2
24T: 026 1.078 2001.000	1794.362 1297.636	220.756	220.756 T									- Ir		7			7		50	12,021	19.640 CWH vm 1
3uTv-026 0.642 2001.000	1253.215 1451.607	222.489	222,459											-			8		60	8.531	12.330 CWH vh 2
30TF027 0.763 2001.000	1536./50 1124.951	223.750	223.730 T						i i								8			15.385	3.779 CWH vh 2
3011-045 177.092 2001.000	742.951 /19.621	226.014	226.014	i i					T I			—— i					8	4		103,436	9.010 CWH vh 2
*XTE-004 94.974 1955,329		225,946	226.948 1						T	1		11	_				0			103,4361	36,628 CWH vh 2
361 t-070 5.500 2001,000		611.552	227.238 1						т		-	r ilr	-	, 			9		40	13.254	CWHvm
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5(T-00) 34,234 228,524	1757.971 501.446	264.936	220.324 1		+							1					41				27.858 MH mm 1
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																7000	AGE CL	HT_CL_IN	OCCUPRAT	ELEVATION S	OPE BIOCEO
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GbTs-030 1.812 2001.000 1159.945	1059.893	254.621 254.6	521 T																	73.424	14.252 (04/4 + 2
FITI-003 451.745 1938.875 258.516	339.826	575.658 258.5	518																		6,705 GWH vm 1
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GeT010 715.480 2001.000 1072.783		261.790 261.7	790						T											7.001	6.838 CWH VII 2
E-Y-007 77.050 938.610 977.810	516 624	261.951 261.9	951						T		1.						9	4	30		
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FiTLO1 61 000 2001 000 886 595		824,565 266.0	002 T											T			7	3	25	21.155	24.578 CWH vh 2
								7	-								9	3	40	14.877	4.661 CWH vh 2
CST-047 0.096 2001.000 655.160			264 T											_	-			-	10		3.578 CWH vh 2
GLT: 029 13.319 2001.000 268.494	1782 361	428 GO2 268 4	494 T					T						,			4				14,174 CWH vh 2
FdT+005 0.540 2001,000 502,068	260 216	357 767 269 2	216														0	0			
FITp-006 1.393 2001.000 733.383	403.598	271,748 271,7	748 T						1					T			9	4			16.090 CWH vh 2
	273 783	649 666 273 7	782 T											7			9	4	45	14.936	9,751 CWH vh 2
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Fit geog 26.291 2001.000 1826.700		275.123 275.1			=												P	- 2	50	10.341	13.027 CWH vh 2
FuTjes1 16.625 2001.000 275.592	390.242	1684.516 275.5	592 T					Ι													3.322 CWH vh 2
ChT-000 32.000 2001.000 2001.000	278.095	500.040 270.0	995 T											Т			0	Ū			
OUT 1047 21.010 2001.000 278.813	1588.345	481,144 270.0	B13						, 								9	2			1,320 CWH vh 2
Objects 55:100 2001.000 312.950	280.705	471,000 200.7	70.						T		- (8	2	50		9.505 CWH vh 2
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GB[8-05] 2.762 2001.000 261.309		420.599 281.3												l T					30	19.126	7.730 CWH vh 2
ST 9 101 186.521 2001.000 1519.018	1660.020	201,513 201,5	513 T						1.										30	12.153	
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		288 733 288 7					\vdash				\vdash			1	/		9	- 2		11.	13.393 24.347 CWH vh
	0.1.0.0	200,700, 200,7				<u>. </u>											—			7.007	0.000 OWI VI. 2
FgTh-002 31.587 2001.000 1179.496		452.832 288.8																<u> </u>		11.200	11 335 000 1 11 2
GdTn-012 4.294 1081.509 406.690	292.055	473.001 292.0	055 T		:				1								9		73		***************************************
FkTp-002 39.817 2001.000 418.434	292.338	725.295 292.3												1					•	11.005	7.778 OWITH 2
		503.686 296.6		- 1	-				\rightarrow					Т				3	30	14.236	13.129 CVVH VII 2
GcTn-006 4.712 2001.000 1715.061							-												40	121,673	35.015 MH mm 1
GbTI-011 210.1111 2001.000 1343,659		297,669 297.6					-													11.200	19.830 Mri mm I
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FIT:: 609 3.000 2001.000 1730.333			284 T											T			9	3	/5	7.855	10.859 CWH VN 2
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EIT-001 8 931 2001 000 341.232			810 T					<u>'</u>				_		_			8				9.181 CWH vh 2
GhTa-009 4 953 2001.000 1995.923	806,252	308.247 308.2	247 T									τ	T	IT.						_	
ChT-017 11 439 2001 000 541,014	311.004	638 810 311 0	104 T					T						T			0				12.474 CWH vh 2
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GiTi::002 13 285 2001 000 2001 000	312.695 1539.558	1336 920 312 6	695 T 884 T				Ť				T		-				8	2	0 80 80	8.899	8.674 CWH vh 2 CWH vh 2
GIDLA02 13.285 2001.000 2001.000 GLT-063 3.236 2001.000 732.810 FeT4 003 105.475 2001.000 716.995	312.695 1539.558	1336 920 312 6 312 884 312 8	695 T 884 T				T				T					_	8 9	2 4 5	80 80 5	8.899 90.811	8.674 CWH vh 2 CWH vh 2 39.164 MH mm 1
CATE-002 13 285 2001 000 2001 000 CATE-052 2 236 2001,000 732 810 FOT4 003 105 475 2001,000 746 905 Q-\$1,003 2001 000 426 918 561 252	312.695 1539.558 314.396 317.670	1336 920 312 6 312 884 312 6 508 980 314 3 561 948 317 6	695 T R84 T 396		-		T		T		T			T			8	2 4 5	80 80 80	90.811 12.370	8.674 CWH vh 2 CWH vh 2 39.164 MH mm 1 1.861 CWH vh 2
GIT-002 13.285 2001.000 2001.000 CST-062 3.296 2001.000 732.810 GST-003 105.475 2001.000 716.995 GST-003 2001.000 426.918 661.292 GST-044 9.497 2004.000 2004.000	312.695 1539.558 314.396 317.570 510.015	1336 920 312 6 312 884 312 6 508 980 314 3 561 948 317 6 219 932 319 6	695 T 884 T 396 570			11.04	T		т		T			T			8 9	2 4 5	0 80 80 5	8.899 90.811	8.674 CWH vh 2 CWH vh 2 39.164 MH mm 1
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GIT-002 13.285 2001.000 2001.000 CST-062 3.296 2001.000 732.810 GST-003 105.475 2001.000 716.995 GST-003 2001.000 426.918 661.292 GST-044 9.497 2004.000 2004.000	312.695 1539.558 314.396 317.570 510.015	1336 920 312 6 312 884 312 5 508 980 314 3 661 948 217 4 219 932 319 6 522 171 324 5 478 552 325 3	695 T 884 T 396 570				T		T T		T			T			8 9 9 8 0	2 4 5 4 0	50 80 5 0 0	90.811 12.370 5,474 179.088	8.674 CWH vh 2 CWH vh 2 39.164 MH mm 1 1.861 CWH vh 2 4.584 CWH vh 2 99.177 CWH vm 1
GTN-002 13.285 201.000 201.000 261-005 251-005	312.695 1539.558 314.396 317.570 510.015	1336 920 312 6 312 884 312 8 508 980 314 3 661 018 317 6 318 032 318 0 522 171 324 8	695 T 884 T 396 570				T		T		T			T T			8 9 9 8 0 0	2 4 5 4 0	0 80 80 5 0 0	8.899 90.811 12.370 5.474 179.088 13.965	8.674 CWH vh 2 CWH vh 2 39.164 MH mm 1 1.861 CWH vh 2 4.584 CWH vh 2 99.177 CWH vm 1 38.837 CWH vh 2
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CATE-002	312.695 1539.558 314.396 324.570 519.016 1002.132 025.768 403.000 020.000 1000.230 330,173	1336 920 312 6 312 884 312 8 509 980 314 3 661 948 317 8 662 947 328 8 672 174 324 6 478 652 326 7 926 470 386 8 327 939 328 3	995 T 884 T 196 570 923 T 766 776 777 777 777	T		¥		T	T		T				T		8 9 9 8 0	2 4 5 4 0 0	0 80 80 5 0 0	8.899 90.811 12.370 5.474 179.088 13.965 18.152 13.226	8.674 CWH vh 2 CWH vh 2 39.154 MH mm 1 1.861 CWH vh 2 4.584 CWH vh 2 99.177 CWH vm 1 38.837 CWH vh 2 42.667 CWH vh 2 1.295 CWH vh 2
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Gata Gata	312,695 1539,550 314,396 137,670 137,670 1002,132 026,762 403,000 1000,230 350,173 463,346 201,000 1084,033 499,546 499,32 499,3	1336 920 312 6 712 884 312 9 70 990 314 3 661 818 317 6 713 171 324 4 716 650 326 3 717 171 324 4 716 650 326 3 717 171 324 4 716 650 326 3 717 171 326 3 717 171 3	995 T	T		T	Y	7	T T T		T	T		T T T T T T T T T T T T T T T T T T T	Y		8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 800 800 800 900 900 900 900 900 900 90	8.899 90.8111 12.3701 5.474 179.088 13.865 15.152 13.265 15.567 16.297 16.297	8.674 CWH vh 2 CWH vh 2 39.164 MH rm 1 1.861 CWH vh 2 4.564 CWH vh 2 4.564 CWH vh 2 4.567 CWH vh 2 4.667 CWH vh 2 4.667 CWH vh 2 4.667 CWH vh 2 4.667 CWH vh 2 4.667 CWH vh 2 4.667 CWH vh 2 4.767 CWH vh
GTL002	312,695 1539,558 314,396 197,570 1992,132 225,766 499,989 020,000 000,230 350,173 466,346 2001,000 1064,033 391,536 499,446 1409,132 351,1463 434,435 631,367	1336 920 312 £ 212 884 312 £ 212 884 312 £ 213 884 312 £ 661 918 317 £ 661 918 317 £ 661 918 317 £ 661 918 317 £ 661 918 317 £ 661 918 317 £ 661 918 317 £ 671 918 317 £ 671 918 317 £ 671 918 317 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 318 £ 671 918 918 918 918 918 918 918 918 918 91	695 T	T		*	Y		T T		T	Ť		T T T T T T T T T T T T T T T T T T T	T		8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 800 800 800 800 800 800 800 800 800 8	8.899 90.8111 12.370 9.474 179.088 13.965 15.162 13.265 16.567 15.297	8.674 CWH vh 2 CWH vh 2 CWH vh 2 39.164 MH rm 1 1.861 CWH vh 2 4.994 CWH vh 2 4.994 CWH vh 2 4.994 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2
Gata Gata	312,695 1539,550 314,396 131,670 131,670 1903,132 985,768 485,080 625,680 1000,230 330,173 263,346 2001,090 104,033 391,536 499,446 1409,132 351,463 434,435 631,367 1448,770	1336 920 312 6 712 884 312 8 712 884 312 8 500 900 314 3 661 918 317 6 219 923 319 6 262 470 326 5 262 471 326 5 262 471 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 263 330 331 331 331 331 331 331 331 331 33	695 T					7 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T		T			T T T T T T T T T T T T T T T T T T T	T		8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 300 300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 5.474 179.088 13.965 18.152 13.226 15.5671 16.297 17.007 17.007 3.744	8.674 CWH vh 2 CWH vh 2 CWH vh 2 39.164 MH rm 1 1.861 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 4.607 CWH vh 2 4.667 CWH vh 2 4.667 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2 1.295 CWH vh 2
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Gata Gata	312,695 1539,550 314,396 137,670 510,016 1992,132 026,766 403,006 020,000 1000,230 350,173 468,346 2001,000 1084,033 391,536 449,132 351,463 434,435 631,367 1448,770 1448,770 1448,770 1448,770 1448,770	1336 920 312 6 712 884 312 7 500 990 314 3 661 818 317 6 519 990 314 3 519 990 314 3 519 990 314 3 519 990 314 3 519 990 3 519 900 3	695 T 884 T 985 T 670 T 67	T		Ŧ		T	T T		7	Y		T T T T T T T T T T T T T T T T T T T	T		8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 300 300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.8111 12.370 9.474 179.088 13.965 15.162 13.265 16.567 15.297 15.297 17.007 17.007 3.744 13.717	8.674 CWH vh 2 CWH vh 2 SWH vh 2 39.164 MH rm 1 1.861 CWH vh 2 4.004 CWH vh 2 4.004 CWH vh 2 4.004 CWH vh 2 4.004 CWH vh 2 4.007 WH vh 2 4.007
Gata Gata	312,695 1533,558 314,796 314,796 419,046 1903,132 987,768 460,080 020,000 1000,230 330,173 463,346 201,900 1004,033 391,536 499,446 49	1336 920 312 £ 212 884 312 £ 212 884 312 £ 213 884 312 £ 661 948 313 £ 661 948 317 £ 661 948 317 £ 661 948 317 £ 661 948 317 £ 673 171 32 £ 673 171	995 T	- T		¥			T		T	T		T T T T T T T T T T T T T T T T T T T	T		8 8 9 9 9 9 9 9 9 9 9 9	2 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 300 300 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.8111 12.370 5.474 179.085 13.865 15.162 13.265 16.567 15.297 11.207 17.007 3.744 13.377 15.377 15.377	8.674 CWH vh 2 CWH vh 2 Sylide MH rm 1 1.881 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 4.505 CWH vh 2 4.2657 CWH vh
GNT-002 13-285 201.000 201.000 CNT-0652 33-38 201.000 201.000 722.810 CNT-0652 33-38 201.000 722.810 CNT-0652 33-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 722.810 CNT-0652 32-38 201.000 723.810 CNT-0652 32-38 201.000	312,695 1539,550 314,396 131,570 131,570 131,570 130,322 985,768 485,686 625,600 1600,230 330,173 465,336 2001,000 1084,033 391,536 499,446 1409,132 351,463 434,435 434,435 434,435 434,770 345,250 794,300 346,973	1336 920 312 6 712 884 312 8 712 884 312 8 500 900 314 3 661 918 317 6 219 923 319 6 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 262 470 326 5 263 330 336 3 339 150 338 1 339 150 338 1 339 150 338 1 339 150 338 1 341 917 322 339 3 701,689 341.6 1036 4452 341.6 346 5 346 5 347 343 345 345 346 346 348 348 348 348 348 348 348 348 348 348	695 T	T		T		T T T T T T T T T T T T T T T T T T T	T T		T	Ť		T T T T T T T T T T T T T T T T T T T	T		8 8 9 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 300 300 0 0 0 0 0 0 0 0 0 0 0 0	8.859 90.811 12.370 5.474 179.088 13.955 18.152 13.225 15.5671 16.2977 17.097 3.744 13.777 15.717 15.717	8.674 CWH vh 2 CWH vh 2 CWH vh 2 39.164 MH rm 1 1.881 CWH vh 2 4.584 CWH vh 2 4.584 CWH vh 2 4.584 CWH vh 2 42.687 CWH vh 2 30.304 CWH vh 2 30.304 CWH vh 2 1.295 CWH vh 2 1.385 CWH vh 2 1.385 CWH vh 3
Gata Gata	312,695 1539,550 314,396 314,396 314,396 314,396 314,396 314,396 315,766 409,000 020,000 1000,230 330,173 468,346 2001,000 1040,033 391,536 409,132 351,463 449,132 351,463 434,435 631,367 448,770 348,270 34	1336 920 312 6 712 884 312 9 76 920 312 9 661 818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 77 181	995 T	- T					T		T	T		T	T		8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 3.474 179.088 13.965 15.567 16.297 16.297 17.0096 17.0096 17.0097 17.0097 17.0097 17.0097 18.107 19.101	8.674 CWH vh 2
Gathana	312,695 1533,556 314,396 314,396 314,396 314,396 314,396 40,046 1062,132 965,766 409,080 1000,230 330,173 468,386 201,000 1084,033 331,536 499,346 1409,132 351,463 434,435 631,367 1448,770 345,250 794,300 346,073	1336 920 312 6 712 884 312 6 712 884 312 6 500 920 314 7 140 032 310 0 141 032 310 0 147 032 0 147	895 T 804 T 905 F 807 F 808 F 809 F 809 F 808 F 809 F 80					T	T T T T T T T T T T T T T T T T T T T		T	T		T T T T T T T T T T T T T T T T T T T	T		8 8 9 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.859 90.8111 12.370 5.474 179.088 13.865 18.162 13.265 16.567 15.297 15.297 17.000 17.000 17.001	8.674 CWH vh 2 CWH vh 2 CWH vh 2 30.164 MH mm 1 1.861 CWH vh 2 4.564 CWH vh 2 4.564 CWH vh 2 4.567 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.56 CWH vh 2 42.56 CWH vh 2 42.56 CWH vh 2 42.56 CWH vh 2 43.56 CWH vh 2 44.56 CWH vh 2 45.56 CWH vh 2
Gata Gata	312,695 1533,556 314,396 314,396 314,396 314,396 314,396 40,046 1062,132 965,766 409,080 1000,230 330,173 468,386 201,000 1084,033 331,536 499,346 1409,132 351,463 434,435 631,367 1448,770 345,250 794,300 346,073	1336 920 312 6 712 884 312 9 76 920 312 9 661 818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 76 1818 317 6 77 181	895 T 804 T 905 F 807 F 808 F 809 F 809 F 808 F 809 F 80	T		¥			T		T	T		T	T		8 8 9 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 12.370 179.088 13.955 14.152 15.256 15.5677 15.297 17.007 17.007 13.777 19.101 19.101 2.206 3.3377 17.622	8.674 CWH vh 2 CWH vh 2 CWH vh 2 CWH vh 2 S 154 MH mm 1 1.861 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 1.295 CWH vh 2 1.3895 CWH vh 2
Gata Gata	312,695 1539,550 314,396 137,670 131,670 131,670 130,132 130,132 130,132 130,132 130,133 130,133 130,133 130,133 130,133 131,536 1409,132 131,633 140,133 140,133 141,633 141,	1336 920 312 6 712 884 312 8 712 884 312 8 500 900 314 3 661 918 317 6 661 918 317 6 661 918 317 6 661 918 317 6 661 918 317 6 661 918 317 6 661 918 317 6 671 918 318 318 318 318 318 318 318 318 318 3	995 T	T					T T T T		T	T		T	T		8 8 9 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 12.370 179.088 13.955 14.152 15.256 15.5677 15.297 17.007 17.007 13.777 19.101 19.101 2.206 3.3377 17.622	8.674 CWH vh 2 CWH vh 2 CWH vh 2 30.164 MH mm 1 1.861 CWH vh 2 4.564 CWH vh 2 4.564 CWH vh 2 4.567 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.667 CWH vh 2 42.56 CWH vh 2 42.56 CWH vh 2 42.56 CWH vh 2 42.56 CWH vh 2 43.56 CWH vh 2 44.56 CWH vh 2 45.56 CWH vh 2
Gata Gata	312,695 1539,550 214,396 327,670 510,016 1092,132 026,766 400,086 020,000 1000,230 350,173 468,336 2001,090 1084,033 391,536 4491,336 351,463 434,435 631,367 1448,770 345,250 794,300 346,973 1595,777 2001,090 356,438	1336 920 312 6 712 884 312 9 712 884 312 9 661 818 312 6 661 818 312 6 661 818 312 6 661 818 312 6 661 818 312 6 661 818 312 6 661 818 312 6 661 818 312 6 671 818 6 671 8 671 818 6 671 818 6 671 8 671 8 671 8 671 8 671 8 671 8 671 8 671 8 67	995 T			¥			T T T T T T T T T T T T T T T T T T T		T	T		T	Y		8 8 9 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 3.474 179.088 13.965 15.567 16.297 17.0026 12.453 17.0026 12.453 13.774 13.774 13.777 19.101 17.102 17.002 1	8.674 CWH vh 2 CWH vh 2 CWH vh 2 CWH vh 2 CWH vh 2 3.164 MH mm 1 1.861 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 4.504 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.265 CWH vh 2 1.365 CWH vh 2 1.365 CWH vh 2 1.365 CWH vh 2 1.365 CWH vh 2 1.379 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1.370 CWH vh 2 1
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Gathanon	312,695 1533,556 314,396 314,396 131,570 1003,132 965,766 489,986 020,000 1000,230 330,173 488,386 201,000 104,033 331,536 499,346 1409,132 351,463 434,435 631,367 1448,770 345,250 794,300 346,973 1505,777 245,250 794,300 356,438 356,438 356,942 999,341 1243,861 661,037 718,193	1336 920 312 6 712 884 312 8 712 884 312 8 712 884 312 8 712 884 312 8 712 884 312 8 713 812 812 812 812 812 812 812 812 812 812	695 T	T					T I I I I I I I I I I I I I I I I I I I		T	T		T	T	T	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.8111 12.370 5.474 179.088 13.865 15.162 13.265 16.567 15.297 17.007 2.006 17.007 2.006 17.007 2.006 17.007 2.006 17.007 2.006 18.774 19.101 2.006 18.774 19.101 2.006 18.774 19.101 2.006 18.774 19.101 2.006 19.101 19.101 19.101 19.101 19.101 19.101 19.101 19.101 19.101 19.101	8.674 CWH vh 2
Gathard	312,695 1539,550 1314,396 1317,670 1319,670 1317,670 1319,670 1317,670 1319,670 1317,670 1319,670 1320 1320 1320 1320 1320 1320 1320 132	1336 920 312 6 712 884 312 8 712 884 312 8 500 900 314 3 661 948 317 6 219 042 314 6 219 042 314 6 205 -170 326 6 205	695 T			¥		T T T T T T T T T T T T T T T T T T T	T	T	7	T T		T T	T		8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.270 12.270 12.270 179.088 13.955 16.597 16.297 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 17.007 19.101 17.007 17.007 17.007 19.101 17.007 17.007 19.101 17.007 19.101 17.007 17.007 19.101 17.007 17.007 17.007 19.101 17.007 17	8.674 CWH vh 2
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Gathoon	312,695 1539,550 1314,396 1317,670 1319,670 1317,670 1319,670 1317,670 1319,670 1319,670 1320 1320 1320 1320 1320 1320 1320 132	1336 920 312 6 712 884 312 7 500 990 314 317 6 561 949 317 317 317 317 317 317 317 317 317 317	695 T					T T T T T T T T T T T T T T T T T T T	T	T	T	T T		T T	T		8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.859 90.8111 12.370 5.474 179.088 13.865 15.162 13.265 16.567 15.277 15.277 17.007 2.206 17.007 2.206 4.050 17.1762 4.741 17.762 17.76	8.674 CWH vh 2
Gathagon 13.285 2001.000 2091.000 Gathagon 105.475 2001.000 722.810 Gathagon 105.475 2001.000 722.810 Gathagon 105.475 2001.000 722.810 Gathagon 2001.000 2001.0	312,695 1539,550 314,396 317,670 510,016 1092,132 025,766 400,000 1000,230 330,173 468,346 201,000 1084,033 391,536 4499,332 351,463 434,435 631,367 1448,770 1346,77	1336 920 312 6 712 884 312 7 500 990 314 317 6 561 949 317 317 317 317 317 317 317 317 317 317	895 T						T I I I I I I I I I I I I I I I I I I I	T	T	T		T T	T		8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 90.811 12.370 179.088 13.865 15.162 13.265 15.567 15.597 17.007 17.007 17.007 17.107 19.101 17.702 17.707 19.101 17.702 17.707 19.101 17.702 17.707 19.101 17.702 17.707 19.101 17.702 17.707 17.707 19.101 17.702 17.707 17.707 19.101 17.702 17.707 17.707 19.101 17.702 17.707 17	8.674 CWH vh 2
GNT-0002 13-285 2001.000 2091.000 GNT-0052 105.475 2001.000 722.810 105.475 2001.000 722.810 105.475 2001.000 722.810 105.475 2001.000 722.810 105.475 2001.000 722.810 105.475 2001.000 122.850 105.475 2001.000 2001.000 122.850 105.475 2001.000 122.850 105.475 2001.000 122.850 105.475 2001.000 122.850 105.475 2001.000 122.850 105.475 2001.000 105.595 2001.000 10	312,695 1539,556 1539,556 314,396 137,670 910,018 1092,132 986,768 405,086 626,080 1090,130 330,173 360,376 2001,090 1094,033 331,536 499,446 1409,132 351,463 434,435 631,367 1448,770 345,250 794,300 346,973 1595,777 2001,000 356,433 356,942 999,341 1243,661 661,037 718,193 1046,933 1961,437	1336 920 312 6 712 884 312 8 712 884 312 8 500 900 314 3 661 918 317 6 219 032 314 6 219 032 314 6 200 317 92 92 92 92 92 92 92 92 92 92 92 92 92	695 T					T T T T T T T T T T T T T T T T T T T	T	T	T T	Y		T T	T		8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 90.811 12.370 179.088 13.865 15.162 13.265 15.567 15.597 17.007 17.007 17.007 17.107 19.101 17.702 17.707 19.101 17.702 17.707 19.101 17.702 17.707 19.101 17.702 17.707 19.101 17.702 17.707 17.707 19.101 17.702 17.707 17.707 19.101 17.702 17.707 17.707 19.101 17.702 17.707 17	8.674 CWH vh 2
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GRT-062 3236 2001.000 2001.000 GRT-062 3238 2001.000 722.810 GRT-062 3238 2001.000 722.810 GRT-062 105.472 2001.000 722.810 GRT-062 005.000 A28.918 661.282 GRT-064 0.482 2001.000 324.866 GRT-064 0.482 2001.000 324.866 GRT-064 0.482 2001.000 324.866 GRT-064 0.482 2001.000 126.7600 GRT-064 0.482 2001.000 126.7600 GRT-064 0.832 2001.000 2001.000 GRT-064 0.832 2001.000 2001.000 GRT-064 0.083 2001.000 2001.000 GRT-064 0.083 2001.000 2001.000 GRT-064 0.083 2001.000 333.861 GRT-060 273.520 2001.000 1716.762 GRT-064 0.086 1001 2001.000 422.529 GRT-064 0.086 1001 2001.000 1312.946 GRT-064 0.086 1001 2001.000 132.946 GRT-064 0.086 1001 2001.000 132.946 GRT-064 0.086 1001 2001.000 133.8616 GRT-064 0.086 1001 2001.000 133.8616 GRT-064 0.086 1001 2001.000 133.8616 GRT-064 0.086 1001 2001.000 133.8764 GRT-064 0.086 1001 2001.000 1283.700 GRT-064 0.086 1001 2001.00	312,695 1539,556 314,396 314,396 314,396 314,396 314,396 314,396 314,396 314,396 314,396 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 301,330 301,3	1336 920 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 312 6 712 884 314 6 712 885 314 6 7	695 T					T T T T T T T T T T T T T T T T T T T	T	T	T T	Y Y		T T	T	T	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 12.370 179.088 13.955 14.552 15.567 15.597 17.074 17	8.674 CWH vh 2 CWH vh 2 CWH vh 2 CWH vh 2 S3.154 MH mm 1 1.881 CWH vh 2 4.584 CWH vh 2 4.584 CWH vh 2 4.584 CWH vh 2 4.584 CWH vh 2 4.585 CWH vh 2 4.687 CWH vh 2 4.688 CWH
Gathaco	312,695 1539,556 314,396 314,396 314,396 314,396 314,396 314,396 314,396 314,396 314,396 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 300,300 301,330 301,3	1336 920 312 6 712 884 312 6 712 8 712 8 712 8 712 8 712 8 712 8 712 8 712 8 712 8 712	695 T						T	T	T T	T		T T	T	T	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8.899 90.811 12.370 3.474 179.085 13.865 15.567 15.271 15.281 13.285 15.567 15.297 17.007 3.744 17.007 17.7	8.674 CWH vh 2

		001 DI	NOT LAKE	NOT DEED !	NET INTENTE	VOT CON	PRECONTACH	unropic le	CAMOR DIN	FIRM TOAD	EISH WEID	BURNA	СМТ	PICTOGRAP	PETROGLYF	HABITATION	DEPRESSIO	SHELL MIDE	LITHIC	TRAIL	AGE CL	IHT CL IN	CEDARPCT EL	EVATION SLO	PE BIOGEO
ZBN FiTd-008	DIST_CST 135.500		2001.000	619.940	370.890	370.890	PRECONTACH	HSTORIC I	JANOE_RUN	rian_IIVAr	LISH THEIR	DONIAL	T	, torogra	LINDOLIN	TP-DATA-TION	DEI TIEGOIO	O ALLE MILE		1			20	68.194	38.944 CWH vm 1
FkTa-023	135.500	2001.000	373,372		1169.576	373.372		-					i	İ				Т					40	13.535	7.110 CWH vh 2
GcTo-052	15.281	2001.000	1817.090		373.542	373.642	T							1		T	T	Т			· ·	3	3 20	12.962	10.610 CWH VN 2
GdTo-032	3.291	2001.000	374.042		673.235	374.042			Г		Ì							Τ _				3	3 70	13.801	19.189 CWH vh 2
GcTo-013	5.622		1897.202	377.369	705.534	377.369												Т				7	2 30	8.261	9.351 CWH vh 2
FITk-005	53,793	2001.000	379.414	496.418	776.928	379.414							Т	<u> </u>							-		5) 62	31.141	48.597 CWH Vn 2
GbTo-048	5.882		1383.117	1856.095	381.157	381 157	T						1					Т					3 50	15.310	6.801 CWH vh 2
FhT4-001	296,490	2001.000	929.086	351.769	884,200	381.769					!		Т	ļ		_		ļ					5 0	2431	1.654 CWH ws 1
Gg17-007	2001.000	385.134	2001.000	401,395	593.396	385.134								<u> </u>		Т	<u> </u>			<u> </u>					9.213 CWH vh 2
GcTo-043	10.699		1405.524	390.388	528.676	390.388								<u> </u>				11					3 40	17.553 9.887	9.586 CWH vh 2
FkTo-024	3,740		390.499		1052.395	390.499							<u> </u>					1			-		2 50	9.444	8.489 CWH vh 2
GbTo-028	6.320		391,232	1435.722	877.373	391,≥32	Υ						17				·	1			1		301	13.293	11.333 CWH vh 2
GbTo-041	8,742		393.962 956.804	1898.174 1666.265	556.920 394.725	393.962				-	-		<u>'</u>	<u> </u>				7			 		0	15.200	9.188 CWH vh 2
GdTp-030	14.134		2001.000	395.144	860.990	394.725 395.144					-					-		7			 		10	6,609	3.928 CWH vh 2
GdTo-014	52,625		447,627	510.105	400.134	400, 134							т	 		•						9	2 60	8.874	7.783 CWH vh 2
GbTn-041 FbT4-002	290 772		2001.000	2001.000	401.967	401.967							Ť									5		158.874	9.691 CWH vm 1
GbTo-040	5,223		1115.425		403.598	403.598							ľ		т							3	60	14.754	9.299 CWH vh 2
GbTn-036	35.059		450,869	404.085	504.157	404.085		i					т									7	30	11.681	6.769 CWH vh 2
GbTo-021	19.747	2001.000	1638, 163	1695.570	405.654	405,654	T										Τ	ፕ				7	10	16.783	0.763 CWH vh 2
Ff1g-004	162.793	2001.000	680.319	407.625	817.709	407.625							Т					"					30	53.775	13.795 CWH vh 2
GdTo-006	5.184	2001.000	1183.805	1282,068	408.850	408.850	Т											Т						9.261	5.150 CWH vh 2
Gb T n-043	51.739		410.041	888.334	749.511	410.041							т								1	9		16.796	19.858 CWH vh 2
Gb T n-037	38.588		547.982		411.242	411.242							Т								1		2 55	18.003	28.657 CWH vh 2
GaTp-005	30.024	2001.000	741.239	839.226	419,996	419.996							L					Т		L		3		17,100]	34.462 CWH vh 2
GbTn-040	16.435		881.954	720,370	421.627	421.827							T	Ļ			ļ						2 70	6,108	1.001 CWH vh 2
F17p-002	5.130		546.843	423.418	1049.589	423.418							 	 				T		<u> </u>			3 65 O	3.619	6.806 CWH vh 2
GbTo-049	17.639		429.694		461.001	429.694					—	<u> </u>	-	ļ				-			 		3 80	9.757	6.178 CWH vh 2 5.534 CWH vh 2
GdTo-027	7.314		1529.917 435.503	2001.000	433.847 620.207	433.847 435.503					_		 	1		т -	T	<u>'</u>				3		9.757	5.534 CWH vh 2 8.449 CWH vh 2
GbTo-019 FdTe-002	17.713		442,709		987.561	442.709		-					 	1			'	· -		 	1			3.3221	CWH vh 2
FIT0-004	8.751	2001,000	1298,991		651.993	445.261					-		 	ì				Т					4 15	9.971	4.696 CWH vh 2
GcTo-007	4.201		445.635		803 161	445 635							† -	1	т			·					5 22	17.694	9,715 CWH vh 2
GbTo-077	1.615		743.357	1050.870	446.432	446,432								j		Т	т	Т		1			85	5.191	7.852 CWH vh 2
GcTo-032	2.500		1555,838	482,545	447.602	447.602							1	1				т		i			0	8.644	8.218 CWH vh 2
GbTo-045	4.786		622.669		448.275	448.275		•					T .							j i		,		11.042	6.335 CWH vh 2
GbTo-006	2.366		453,444	1626,426	524,140	453.444	τ		T				1	İ		T	Т	Т	Т]		3	3 60	8.993	12.814 CWH vh 2
GbTn-028	9.639	2001.000	833,781	633.640	454.782	454.782	τ												Ť			B :	2 60	18.699	11.608 CWH vh 2
GcTo-015	6.475	2001.000	1787.774	806.630	457.443	457.443	T						,					Т		1		В :	5 20	16.131	10.029 CWH vh 2
GcTo-001	1,183	2001.000	458 <u>,521</u>	477.875	829,166	458,521										ĭ	T	T			1	3		12.766	11.514 CWH vh 2
GdTo-041	3.271		459,421	2001.000	474.393	459.421												T			1 :		2 901	8.748	8.196 CWH vh 2
FeTI-001	25.823		508.043	459.739	764.505	459.739								ļ							! !		5 5	8.071	2.298 CWH vh 2
GbTn-005	1,624		799,524	675.680	462.895	462.895												T			! !	9		15.051	6.754 CWH vh 2
GhTk-001	2.682	700100	1271.082	497.241	463.473	463,473	T									Τ					<u> </u>	•	1 40	11.487	15.546 CWH wm
FdTd-003			600.217	1332.139	465.800	465.800																	3 80 t	15.929	11.254 CWH vh 2 6.704 CWH vh 2
GcTo-040			927.467	879.888	466.445	466.445							-					7	·	1	1 1	3		8.873	8.773 CWH vh 2
FkTo-006		2001.000	1012.723	468.497	1478.347	468.497					-		1	-				T	<u> </u>	1	 	7	,	17.935	28.824 CWH vh 2
FITF-003	21.584 689.891		458.891	486,890 501,157	968.410 676.947	468.891 472.071					-		T	<u> </u>						_	1 - 1		2 50	64.485	8.260 CWH vh 2
GbTn-050			472.071 640.865	473.143	536.117	473.143							 										0	12.046	2.363 CWH vh 2
FdT+010 FlTo-006	15.645		501.593		931.859	473.143			 1					1				т		1	1			6,779	6.563 CWH vh 2
GaTp-003	17,733		1038.338	1327.204	474,499	474.499							<u> </u>					T		T			3 50	6.274	5.314 CWH vh 2
FiTh-002	4 638		1135 978	842 986	475.549	475,549								Τ.										13.619	46.581 CWH vh 2
G/Tk-005	14 929		874 000		1524.256	475.559														1	I .	4	2 20	17.594	22.024 CWH wm
FdT+-003	26,105		475.559		580,125	475.559																	2 68		CWH vh 2
FkT 6-022	17 320	2001 000	476 445	942 826	1343.329	476.445	т											T			!		40	11.096	14.738 CWH vh 2
FdT+-009	2001.000	2001.000	528,539	480.951	945,736	480.951								L									0 0	1	CWH vh 2
GbTo-074	6 163	2001 000	2001 000		481.599	481,599								1				τ					2 90	16.181	1.036 CWH vh 2
FiTc-003		1754.616	990.042	400,001	488,001	485.084														-			0 0	3.227	8.993 CWH vm 1
GbTo-044		2001.000		1627.995	553.110	489,411			I						T								3 60	13.335	13.018 CWH vh 2
GhTr-006	31 602		1681 594	1201.065	489.993	489,393												T	<u> </u>	<u> </u>			0 0	14,709	2.090 CWH vh 2
GbTo-034		2001 000	<u>491</u> 574		767.542	491.574	T	<u></u>				т			Τ	Ι	1	T		ļ		91	+	16,743 8,621	2.555 CWH vh 2 4.091 CWH vh 2
Ghlin-042		2001 000	517 552	667 938	494 347	494 347	 						<u> </u>		-					-			2 60;	11,208	4.091 CWH vh 2 6.893 CWH vh 2
GdTo-035	49 330		496 841		781.299 499.808	499,808	T						 	 				т		 			2 95; 2 50	9.552	9.127 CWH vh 2
	1 823		2001 000	734.385	1015.556	510.399			 i				 	 	_					 			2 0	8.706	3.068 CWH vh 2
GbTo-061 GdTn-001	7.750	2001 000 512,462	510 399	2001.000 1526.513	735.211	512.462		1	,				 	 		T		т		 		01		11.614	21.955 CWH vh 2
Gallo-008	4.862	2001.000	1492,800	513,125	882.709	513,125			-					 		.	7	T		i			3 20	16.654	10.152 CWH vh 2
GbTm-005	160.665		524.271	1347,361	513.202	513.202							Ť	1						i			3 70	58.543	20.707 CWH vh 2
GdTo-028	11.958		1278.030		513.973	513.973												T				5	1 70	13.984	5.442 CWH vh 2
GdTo-055	39.765		2001.000	2001.000	515.261	515.261			-				Т									8	2 70	19.320	19.937 CWH vh 2
FITp-007	7.189		754.638	567.117	516.486	516.486								<u> </u>				T				9	3 90	5.899	14.861 CWH vh 2
Gb To 082	8.157		517.688	629.511	558.996	517.688	T						7					T				9		6,850	4.323 CWH vh 2
FiTo-003	17.509	2001.000	967.843	518.094	934.016	518,094	T											Т					3 90	10.808	1.600 CWH vh 2
GcTo-051	2.007		2001.000	1109.194	518.487	518.487										T	T	Т			1		3] 0	14.665	3.787 CWH vh 2
GbTo-042	15.360	2001.000	1442.455	1935.153	518.567	518.567									7		l	L			1	3	10	14.464	5.720 CWH vh 2
GbTn-044	54.073	2001,000	518.809	1253,315	641.642	518.809							T	1				1			1	9}	2 601	20.592	1.755 CWH vh 2

The column The												-						
1.	ZBN DIST CST DIST DBLRV DIST LAKE DIST_DEFR	DIST_INTRV DIST_FRESH PRECONTA	ACHISTORIC CANO	E_RUN FISH_TRAP	FISH_WEIR E	SURIAL CMT	PICTOGRAP	PETROGLYF	HABITATION	DEPRESSIO	SHELL_MIDE	LITHIC	TRAIL	AGE_CL	HT_CL_IN	CEDARPCT	ELEVATION SLC	OPE BIOGEO
March Marc			lT.						T	T	T			9	3	30	11.858	21.514 CWH vh 2
March 1988			- 	i	1		_		Ť		T			8	3			7.537 CWH vh 2
1.5 1.5			+								т .							
Page 19 19 19 19 19 19 19 1											-							
March 1.51 1.52	E)To 108 E 179 2001 000 900 678 528 933										I							
The color of the	FITENS 57 023 2001 000 2001 000 989.433	531,241 531,241	T			Т								0	0	0	28.300	28,256 CWH vh 2
State Color State Color State Color State Stat	GeTe 039 22 238 2001 000 1029 366 994 439	536 641 536 641 T							T	T	Ť			8	4	30	11.597	16.640 CWH vh 2
The color Color			1						1		т			9	2	90	15.647	11 166 CWH vh 2
Page 19 19 19 19 19 19 19 1					_						-				-			
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Color	GHT= 020 15 501 2001 000 1576 586 2001 00	1 546 948 546 948 T						T		T	т				4	10	11.386	4 037 CWH vh 2
April Apri	FoT- 001 0 243 2001 000 915 128 945 350	547 801 547 801 T									T			R	2	45	6 115	2 967 CWH vh 2
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The color The	GUY-007 22-163 2001-000 556-064 838-054	5 582 219 556 064 T							7	7	7						12.508	6.214 CWH-+ 2
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Column C			+								-			9		- 00		
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Prof. April Apri	Gata 023 5.285 2004.000 2004.000 554.301	763.661 564,392 T									T			- 3	+	20	7.725	1.260 CWH vh 2
Prof. April Apri	Octrigo 18 37.429 2001.000 2001.000 774.41	307.821 307.821	+											7	3	30	30.339	77.739 CWH VII 2
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