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**To:** Parks, Recreation and Cultural Services  
**Committee**

**From:** Mike Redpath  
Manager, Parks Programs, Planning & Design

**Re:** Terra Nova North-West Quadrant Landscape, Biophysical and Heritage Resources Study

*To: PARKS, REC + CULTURAL - JUNE 25,*  
**Date:** May 21, 2002  
**File:** 7200-01

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**Staff Recommendation**

1. That the report: "Terra Nova North-West Quadrant Landscape, Biophysical and Heritage Resources Study" be received for information.
2. That staff be directed to undertake preliminary site management of invasive plants at portions of the Terra Nova North-West Quadrant site and that \$30,000 from the existing capital project 40805 be utilized for this purpose.

Mike Redpath  
Manager, Parks Programs, Planning & Design

Att. 2

<b>FOR ORIGINATING DIVISION USE ONLY</b>
<b>CONCURRENCE OF GENERAL MANAGER</b>

## **Staff Report**

### **Origin**

In Fall of 2001, the City engaged a consultant team to conduct an inventory and analysis of the City owned lands in the Terra Nova Northwest Quadrant area. This report provides a synopsis of the consultant's findings and makes recommendations for a preliminary site management program. The consultant's executive summaries and maps are attached to this report. The full detailed document is available at the Parks Department.

### **Analysis**

#### **Background**

The City has been actively assembling land in the Terra Nova Northwest Quadrant since the 1996 Referendum passing of By-law No. 6656 authorizing City Council to borrow money to acquire lands. To date 59.38 acres have been purchased with a number of properties still under consideration for acquisition. Some of the City owned properties are presently rented out on a monthly basis, others are vacant, and three properties have special tenancy arrangements with the City. The City has the option to develop the backlands of these three properties leaving the home site at the front of the property for the tenant's continued use until the term of agreement is completed.

#### **The Study**

In Fall 2001, a biophysical, heritage, and landscape character inventory and analysis was undertaken (Executive Summary Attachment 1). The intent was to gather information about the site that would help guide future park development. A team of consultants with expertise in each of these areas was hired to produce detailed inventories and analysis, map (attachment 2) and layer the information; collectively determine site capacity for public access; and establish agreed upon management and planning guidelines.

#### *Study Highlights*

The study produced a wealth of information about the site. These lands have many assets and there is an opportunity to create a legacy for generations to come. The highlights and challenges of each area are outlined below.

#### *Environment*

The biophysical inventory and analysis looked at vegetation, wildlife, soils and drainage, habitat sensitivity and the role of Terra Nova within the larger ecological context of the Lower Mainland.

### *Highlights*

- Terra Nova Northwest Quadrant is part of the Greater Vancouver Fraser River estuary ecosystem that stretches from Point Grey to Boundary Bay,
  - It provides a food source and resting area for aquatic and migrating birds,
  - It provides a backshore habitat and buffer from the urbanized area for the wildlife in Sturgeon Banks
  - Together with Terra Nova Natural Area and Quilchena Golf Course, this land creates a substantial green belt connected to the marsh and the river
  - On site there is a rich diversity of habitats including open fields, ditches, mature treed areas, hedgerows, and landscaped gardens that support a variety of wildlife
  - 70% of the site is open grass area
  - The great blue heron and common barn owl are two species of conservation concern found on the site
  - One mature chestnut tree on private property just off River Road contains a minimum of 7 heron nests
  - The highest habitat sensitivity areas include portions of the old fields, the remnant slough, wooded areas, hedgerows, and the mowed and seasonally flooded fields
  - The habitat sensitivity decreases on the east side of the lands adjacent to the residential edge. This would allow for more active use and development .

### *Challenges*

- Purple loosestrife, ivy, and blackberry are invasive plants at the site that need to be controlled. Even without knowing the final park program, some immediate action should be taken to control these plants where they have become very invasive before the assets are lost.
- Some of highest sensitivity areas such as the woodlots may also include heritage assets and are attractive for recreational use. A balance needs to be struck between conservation and public access

### *Heritage*

Terra Nova Northwest Quadrant is a rural cultural landscape with an agricultural and industrial history reflected in its heritage features. It is a surviving pocket of historic and natural resources within a very unique setting that creates a strong sense of place. There is an excellent opportunity for interpretation of the many features and heritage character.

### *Highlights*

- Prior to the arrival of non-native settlers, the Musqueam First Nation used the area and the network of sloughs for seasonal camps and transportation
- A remnant historic slough still exists
- The first non-native settlers arrived around 1868

- The subdivision boundaries established in 1890 are still very evident on the site by the hedgerows, drainage patterns, and treed wind shelter belts
- Remnant homestead landscapes provide a variety of interesting mature trees, orchards, and ornamental landscapes
- There are five buildings within the site listed on the Richmond Heritage Inventory. Two are owned by the City and the other three are clustered on one private property (the same property with the heritage tree and 7 heron nests)
- The relationship between heritage buildings and the residential landscape and the working landscape is still intact making the overall historic integrity of the area high
- Two canneries with resident workers were located here that together with the farmers created a unique community
- This site is located at the opposite side of the Island from Steveston and connected by the West Dyke Trail creating an opportunity for another historic destination along the Richmond Trails System.

### *Challenges*

- Designing and programming the park to respond to and promote the unique heritage features and character and sense of place that already exists
- The need for further documentation and research into some of the heritage resources to determine the feasibility of maintaining and restoring them
- The reality that it can be costly to maintain and restore heritage features such as the buildings and the need to explore a variety of creative conservation options
- As with the sensitive environmental areas, a balance will need to be struck between public access and safety and maintaining the integrity of the site

### *Landscape Character*

Landscape character describes the site's visual, spatial and aesthetic qualities that influences how we as humans respond to our surrounding environment. The natural environment and cultural environment are all part of landscape character.

### *Highlights*

Seven distinct character types exist at the site that add variety and interest to our experience of the area. These character types include:

- Fields – old fields similar to Terra Nova Natural Area and maintained fields
- Residential yards – manicured and remnant homestead yards that are being overgrown
- Woodlots - originally planted and maintained but now naturalizing
- Hedgerow/thickets- usually following drainage and property boundaries
- Orchards-planted in formal linear rows; 3 existing orchards
- Perimeter areas –areas between the internal land and the river or Sturgeon Banks that provide views and access to the site

- Rural corridors- driveways, lanes, the roadways surrounded by vegetation that allow for access into the site.

*Challenges:*

- There are many opportunities to create a network of trails through the site to enjoy a variety of landscapes. The main challenge, as with the other two areas of environmental and heritage sensitivity, is to balance public access with maintaining the existing integrity and uniqueness of the site;
- Invasive vegetative species need to be controlled before these character areas are lost.

**Analysis**

This inventory and analysis is the first step in understanding the unique aspects of Terra Nova Northwest Quadrant that should be protected, enhanced and celebrated as a new asset to be added to Richmond's open space system.

No other site in Richmond offers this diversity and uniqueness of natural, heritage and landscape character in addition to its unique and attractive location and value as part of both a larger ecosystem and recreational network.

In addition, the recently completed Needs Assessment by the Parks, Recreational and Cultural Services Division indicates that passive recreation, trails, interpretation and understanding of Richmond's natural and historic environment are valued by residents and considered a high priority for future open space programming and development.

The highest sensitivity, integrity and value in all categories of the study appear to be in the areas closest to the perimeter of the site along River Road, the West Dyke, Westminster Highway and a portion of the central open fields and shelterbelts. It appears that the overall site sensitivity and biophysical, heritage and character value becomes relatively lower further east towards the residential edge. This area could be considered for more active programming as the open space plan is being developed.

*Next steps*

There was such a wealth of information gathered through this study that further detailed review is still required by staff. Some of the proposed next steps include:

1. Begin a program of managing the invasive plants during the Fall and Winter of 2002;
2. Staff continue to review in detail the recommended management and planning guidelines proposed by the consultants;
3. Identify which areas require further detailed research and documentation. For example review the condition and historic integrity of the recently purchased Cold Comfort Farm, one of the pioneer's homes that is presently being rented out;
4. Continue acquisition of private property parcels;

5. After the review of the management guidelines determine if in the short term a portion of the site could be opened to allow for public access. For example, the western edge of the site is owned by the City and has some of the nicest rural character aspects on the site. A simple trail loop through this area could be created connecting back to the West Dyke Trail.
6. Identify an overall vision for the area and prepare a number of options outlining different public use options.
7. Outline and undertake a public consultation process.
8. Present vision, management recommendations and guidelines, park options, and public input to Council.
9. Develop a long term park plan to guide the development of this open space for years to come for Council approval.

### **Financial Impact**

Staff is recommending preliminary management of invasive plants in the immediate areas of concern, the initial cost for this work to be undertaken is estimated at \$30,000 for the first year. The existing Terra Nova North-West Quadrant capital project number 40805 is recommended as a funding source.

It is estimated that it will take 3 years of ongoing maintenance to gain control over the plants at approximately \$10,000 per year. Because of the heavy work that needs to be done and the unknown site conditions in some areas, it is recommended that this initial site work be conducted by City crews with the appropriate expertise. It is feasible that some of the ongoing maintenance could then be conducted through partnership adoptions by volunteer environmental groups.

### **Conclusion**

This report has been presented to update Council on the findings of the Terra Nova Northwest Quadrant Biophysical, Heritage, and Landscape Character Study. The results of the study indicate that this area is rich in diversity and a variety of assets that have created a unique and special place. The Terra Nova North-West Quadrant will be a valuable addition to Richmond's open space system for generations to come. The immediate concern is the need to control the invasive plant species. Staff is recommending that the City act quickly to manage these plants before some of site attributes and assets are lost.



Yvonne Stich  
Park Planner

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***TERRA NOVA NORTHWEST QUADRANT  
INVENTORY & ANALYSIS***

***EXECUTIVE SUMMARY  
JUNE, 2002***

Prepared For:  
CITY OF RICHMOND COMMUNITY SERVICES DIVISION

Prepared By:  
SHARP & DIAMOND LANDSCAPE ARCHITECTURE & PLANNING  
DENISE COOK CULTURAL RESOURCE PLANNING  
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In the fall of 2001, a biophysical, heritage, and landscape character inventory and analysis of the Terra Nova Northwest Quadrant Lands was undertaken. Its purpose was to assist the City of Richmond in developing management and planning guidelines for this important site. This inventory and analysis is the first step in preserving, enhancing and celebrating the Northwest Quadrant Lands as a vital part of the City of Richmond's open space system.

Located in the northwest corner of the City of Richmond on the Middle Arm of the Fraser River, the Terra Nova Northwest Quadrant is a 27-hectare site with a wide variety of biophysical, heritage and landscape attributes. It is a valuable part of both the Fraser River estuary system, and a network of marine, intertidal and terrestrial ecosystems in the region. From a heritage perspective, the Northwest Quadrant is valuable for the remnants of a variety of settlement types and uses. It also has a diverse, unique set of landscape character types. There is strong potential for the development of a land use plan that protects and enhances these various site attributes, as well as providing a rich, varied experience for site users.

## **BIOPHYSICAL INVENTORY AND ANALYSIS**

### ***Ecological Context***

The Terra Nova Northwest Quadrant plays a significant role in the ecology of the Greater Vancouver Region, as well as the Fraser River estuary ecosystem. It is part of a complex, interrelated network of marine, intertidal, and terrestrial ecosystems extending from Point Grey to Boundary Bay. The Terra Nova area is particularly important because it provides habitat diversity and serves as a backshore habitat to Sturgeon Bank. The combination of open fields, ditches, treed areas, landscaped gardens and hedgerows is rare in the City of Richmond and it provides a productive habitat for a variety of wildlife.

An estimated 70 percent of the historical natural habitat in the Fraser River delta has been lost due to dyking and agricultural land development. These farmlands today provide foraging and resting sites for large numbers of shorebirds, songbirds, waterfowl and wading birds. Waterfowl depend on these lands for food, while shorebirds may use farmlands when high tides cover the beaches or at times when food sources are not available along the shore. Wintering waterfowl, raptors, shorebirds and gulls feed and roost in upland areas during high tides or inclement weather. As these lands come under redevelopment, the remaining parcels of both active and abandoned agricultural land become increasingly important for wildlife.



The particular ecological role of the Terra Nova site is defined by the fact that it provides:

- bird habitat for shorebirds;
- a protective buffer for the intertidal marsh outside of the dyke, and roosting and additional feeding habitat for birds that feed in the adjacent intertidal areas;
- a diversity of habitats in a relatively urbanized region that provide habitat for bird populations displaced by residential development and small mammals that use them for cover and feeding.

### ***Vegetation Inventory and Management***

About 70 percent of the Terra Nova Northwest Quadrant's 21 hectares is classified as field grasses. The remaining 30 percent is comprised of small woodlot areas, orchards, blackberry thickets and cultivated yards. Woodlots provide the most structural diversity, containing three different layers of vegetation (trees, shrubs and groundcover). Orchards are important for their historical value and are also a food source for birds and other wildlife. Grass fields provide important wildlife habitat. A number of invasive species, if left unattended, will cause a decline in the vegetation values of the area.

### ***Wildlife Inventory and Management***

Bird species found in the Northwest Quadrant include waterfowl, passerines (songbirds), raptors and great blue heron. Mammals residing or frequenting the area include coyote, raccoons, mice, voles, shrews, ermine, and skunk. Amphibians and reptiles also occur at Terra Nova including garter snakes and tree frogs. At least two species of conservation concern (both blue listed) utilize the habitats of the area: great blue heron and common barn owl.

These species occupy "habitat niches", including woodlots (passerines, raptors, mammals), grass fields (waterfowl, raptors, great blue heron, mammals), thickets (passerines, mammals) and ditches (waterfowl, great blue heron, amphibians). To optimize the habitat for these species, management will be required including removal of invasive species, periodic mowing of old-fields, and allowing for the pooling of water on mowed fields in the winter for waterfowl use. Management considerations should be guided by the area's value to blue-listed species, its habitat diversity, its corridor function for migratory birds, its value as alternate high-tide daytime habitat for species using the foreshore marshes, and its strategic location as a "piece of the habitat puzzle" in the area.

### ***Soils and Drainage***

Much of the Terra Nova area has been or is currently cultivated for agricultural purposes. The soils are mostly Class 1 (90%) with some Class 2 (10%). Class 1 land has no limitations to agricultural use while study areas with Class 2 soils have some limitations such as high ground water and high soil moisture. The Terra Nova properties are interspersed with north-south drainage ditches, as well as a large perimeter drainage ditch on the north and west side of the study area. A remnant of an historic slough also runs through the area. The soils were grouped

and mapped according to their characteristics and values. Some portions of the site have relatively undisturbed native soils (other than cultivation), which are uncommon in Richmond and therefore make them valuable from a landscape integrity perspective. These areas would require significant resources to improve drainage and to enhance soil physical properties for uses such as sports fields, walking or riding trails, or permanent structures. Other areas have had the original soils altered usually through fill placement, removal or mixed with fill. These sites are usually where buildings or other development have been located.

A preliminary investigation of potential hydrocarbon contamination sources was undertaken. It revealed that there are three above ground fuel storage tanks and five barrels; the City of Richmond should conduct a more detailed environmental investigation of these.

### ***Habitat Sensitivity***

In order to assess the habitat sensitivity of the area, several criteria were developed including: rarity/uniqueness, species richness, structural diversity, resilience and vulnerability to human disturbance. The study area was divided into 19 habitat units based on a combination of vegetation types and wildlife utilization. Seven of the areas were rated as having high sensitivity. These included old-fields, remnant slough, woodlots, and mowed field/seasonally flooded fields. Low to moderate rated sensitive areas included blackberry thickets, yards, some old-field portions, orchards, and perimeter ditch.

### ***Environmental Management Recommendations***

- *Control invasive vegetation (i.e., ivy, purple loosestrife and blackberry).*
- *Maintain old-field biophysical values and minimize impact on wildlife use (voles and raptors) by restricting trail access to appropriate locations. Periodic mowing of old-field will be required to maintain habitat values.*
- *Protect large, mature trees and groups of trees (woodlots) for wildlife values and manage trees to retain values (i.e., remove invasive species).*
- *Conserve native soils by avoiding fill or other alterations.*
- *Wherever possible, avoid access through treed areas; keep access to edge of treed areas and use fences if necessary.*
- *Maintain hedgerows for wildlife.*
- *Avoid contamination of water quality in ditches and retain vegetation along the landward side of the main perimeter drainage ditch.*

## **HERITAGE INVENTORY & ANALYSIS**

The Terra Nova Northwest Quadrant is a rural cultural landscape with an agricultural and industrial history, both of which are reflected in its heritage features. The built structures, natural environment, cultivated landscapes and historical associations all contribute to a unique sense of place.

### ***Historical Background***

The Musqueam First Nation provide the first evidence of human settlement in this area, probably for food gathering and use of the Terra Nova slough complex as a means of transportation. The first non-native settlers arrived around 1868, and subdivision of the land commenced shortly afterward, appearing to be complete by c.1930. The boundaries and initial subdivision for Terra Nova originated with the Crown grant of Lot 4 in 1890. These boundaries still define the area today. Early settlers dyked, ditched and settled the land, and worked in the fisheries industry. There were two canneries, now no longer existing, within the Northwest Quadrant.

Historic resources in the study area include evidence of First Nations peoples, the Terra Nova and Alliance cannery sites, the pattern of agricultural fields and related homesteads, and heritage specimen trees and tree groves.

### ***Heritage Value and Heritage Character***

Character defining elements include the materials, forms, spatial configurations, uses, and meanings that together comprise the heritage value of a historic place, and which must be retained in order to preserve its heritage value. Following is a condensed list for the Northwest Quadrant:

- The site's geographical location
- The site as an evolved vernacular landscape
- The dyke and ditches as human responses to the natural conditions of the area
- Broad historic settlement patterns which are still discernable on the site
- The presence and relationships between the farming, fishing and cannery
- Traces of the original building cluster pattern are still discernible
- Current circulation patterns that relate to historical ones
- Significant views in almost all directions
- Spatial experiences on the site, including both openness and enclosure
- Vegetation patterns from different time periods still identifiable on the site
- Continuity of use as agricultural, rural and residential lands
- Association of the site with broad historic patterns in Richmond
- Site symbolism and the attachment of people to landscapes which hold local significance and meaning

### ***Site Integrity***

Since the Northwest Quadrant site as a whole has a high level of historic integrity, this evaluation should be used only to identify areas where the development of park features would have less of an impact on the heritage resource. All areas of the site should be subject to the heritage principles and guidelines as outlined in the heritage review, and should be considered to have potential for historic interpretation.

### ***Heritage Resources and Park Planning***

The implications of heritage resources on site planning for the Northwest Quadrant include determining how heritage values and character defining features can influence the site design, and how the site can be developed without impairing those values and features. There must be a proper fit between existing heritage landscapes or structures and planning, design, character, programming, and management of the study area.

### ***Heritage Management Recommendations:***

- *Wherever possible and feasible, the historic character defining elements of the site should be retained, enhanced and interpreted.*
- *Maintain heritage buildings and landscapes (e.g., residences, orchards, agricultural fields, gardens, boundaries, circulation routes, historical sloughs) and explore a variety of conservation options that respect their heritage values.*
- *Detailed documentation and research should be carried out for the heritage resources on site as planning and design proceeds.*
- *All conservation, management and maintenance work should conform to accepted heritage standards.*
- *Interpretation of the historical evolution, significance and features of the study area should be a key component of future development and management.*
- *Interpretive programming should be integrated into the park planning and design processes and with the proposed trail system, and a multi-faceted interpretive plan developed.*
- *Encourage the public to come forward with memories, stories, photographs and other information that will increase knowledge of the site's history.*

## **LANDSCAPE CHARACTER INVENTORY & ANALYSIS**

Landscape character assessment is the description of a site's visual, spatial and aesthetic qualities. Assessing character aids in sound development or management that can enhance the best aspects of the site. Following is a list of the criteria that were used in the landscape character assessment:

- openness/enclosure
- quality of views
- edge definition
- relationship between landscape and buildings
- slope/surface variation
- influence of surrounding scenery
- rock/soil/vegetation variety
- drainage
- ease of access
- potential interpretive value

### ***Landscape Character Types: Descriptions of Types in Northwest Quadrant:***

Seven distinct landscape character types were identified within the study area: Field, including old fields and maintained fields; Yard, including old homesteads and occupied residences; Woodlot, including formerly maintained areas that are now wooded; Hedgerow/Thicket, including hedges and shelterbelt tree plantings; Orchard, including overgrown and maintained orchards; Perimeter Areas, including areas between the interior of the study area and the shore to the north and west; and Rural Corridor, including lanes defined by surrounding vegetation.

### ***Analysis Of Potential Land Use***

The potential for various types of land use was assessed, including passive recreation, active recreation, agricultural use, interpretive development, and site access. To aid in this, the site was divided into 19 "landscape units". A number of general comments can be made regarding development opportunities and constraints in the study site:

- there is good potential for a low-impact public trail system through the study site, aligned for the most part north-south, with properties and vegetation patterns, and easily accessible due to the flatness of the site;
- there is good potential for variety along trail routings, due to landscape character types, as well as framed views of mountains;
- the perimeter areas and rural corridors provide good access to the interior of the site;
- potential development & interpretive themes include: landscape stewardship, naturalization and rejuvenation; environmentally sensitive site development; agriculture; fishery industry; arboretum; history of settlement of Richmond;
- the most interesting parts of the site are probably also the most environmentally and culturally sensitive;

- east-west trail alignments are hindered (at least in the short- to mid-term) by private land holdings;
- the lack of existing utilities or services is a potential constraint to some types of development;
- new development has the potential to have a negative impact on sensitive vegetation, wildlife, remnant natural topography.

### ***Landscape Character / Public Access And Use Recommendations***

- *Develop a low-impact, accessible main trail system routed through a maximum variety of landscape characters, and linking with the perimeter areas (River Road and Westminster Highway) to maximize easy access. Trails should be designed to have minimum impact on the biophysical attributes of the study area.*
- *Maintain views—both within the site and to features outside the site in trail development, and enhance them where possible.*
- *Include the canopied lanes in Landscape Units 5 and 17 as part of the low-impact trail system, and the impressive collection of specimen trees should be interpreted.*
- *Develop at least one of the fields in Unit 8 or 9, as well as the orchards—particularly in Landscape Unit 10, and possibly in Unit 7, as working sites for agricultural interpretation and demonstration. The historical pattern of agricultural settlement should also be interpreted.*
- *Consider using the Beumann residence and yard in Unit 11 for public access as well as adaptive re-use of the buildings, while preventing access to the woodlot to preserve its habitat value.*
- *Develop and maintain an area (potentially a field area within Units 8 or 9) for informal active recreation that is adjacent to the main trail system.*
- *Continue to acquire remaining private property parcels within the study area over the long term and plan development to accommodate those acquisitions if and when they occur.*

## **SUMMARY: GUIDING PRINCIPLES**

After the inventory and analysis of the biophysical, heritage and landscape aspects of the Northwest Quadrant Lands was completed, the study team came together to produce an overall analysis for the study area. One of the end-products of this analysis was a set of specific guidelines for public access and use, that deal with the study area on a site-by-site basis (see Table 1.1). These guidelines, as well as the more general recommendations listed at the end of each subsection of this summary, have informed the following set of overall Guiding Principles, that are intended to guide future site planning, design, site use and management.

- *The study area's historical integrity and values should be acknowledged and enhanced;*
- *The unique set of landscape characteristics that result from the diverse aesthetic, ecological and historical values of the study area should be respected;*
- *Ecological features and functions should be maintained and enhanced, and the role of this area within the broader ecological context of the Fraser River Estuary and the international Pacific Flyway should be recognized;*
- *Interpretation of historical and ecological features should be encouraged;*
- *Public access and uses that are respectful of the study area's ecological, historical and landscape values should be encouraged;*
- *The study area should be connected internally and to the surrounding community through an accessible trail system;*
- *Site planning and design should be based on the study area's ecological, historical, landscape and recreational attributes and values, and should ensure the area is managed for long-term benefit.*

## **NEXT STEPS**

The following short-term steps are recommended in order to further the management of the study area.

1. Control invasive species on the site, particularly the ivy on specimen trees, purple loosestrife in the old fields and blackberries in the orchards.
2. Remove old drums from properties that may pose a contamination hazard.
3. Take necessary steps to preserve significant heritage features that may need stabilization or repair.
4. Continue to negotiate the acquisition of adjacent properties.
5. Identify an overall vision or plan that lays out public use concepts for the site.

**Table 1.1.1. Terra Nova Northwest Quadrant: Combined Assessment & Specific Guidelines for Public Access and Use**

L'scape Unit	Biophysical Attributes Summary	Heritage Values Summary	Landscape Character Summary	Public Access & Use Guidelines
1	<ul style="list-style-type: none"> <li>• good all season habitat for passerines</li> <li>• coyote denning reported</li> <li>• blackberries should be managed (max. 25% coverage of site)</li> <li>• soils have been significantly altered from native soils</li> </ul>	<ul style="list-style-type: none"> <li>• original crown grant boundary and subdivision lines evident</li> <li>• ditch and dyke present</li> <li>• site remains recall original building cluster</li> <li>• hedgerows and fence lines as demarcation of lots</li> <li>• agricultural fields present</li> <li>• vegetation associated with original homestead</li> <li>• original access still present</li> <li>• important views/vistas</li> <li>• evidence of second layer of use</li> </ul>	<ul style="list-style-type: none"> <li>• spatial variety creates good trail potential</li> <li>• some potential for informal active recreation</li> <li>• potential interpretation of connection between buildings/landscape, plant succession/naturalization</li> <li>• derelict structures may be fragile/dangerous</li> </ul>	<ul style="list-style-type: none"> <li>• plant native shrubs and trees to enhance wildlife values</li> <li>• remove blackberry growth (to no more than 25% blackberry coverage of unit)</li> <li>• develop trail connecting to River Road and Unit 17 to south, following existing (and historical) alignment, and maximizing spatial interest and views</li> <li>• interpret former building footprints, connection between buildings and landscape, naturalization</li> </ul>
2	<ul style="list-style-type: none"> <li>• very good old field (highest vole runway abundance in entire area) provides excellent raptor habitat</li> <li>• trees and hedgerows provide cover for wildlife</li> <li>• significant native soils</li> </ul>	<ul style="list-style-type: none"> <li>• original subdivision evident</li> <li>• Terra Nova slough which has historical associations</li> <li>• agricultural fields present</li> <li>• hedgerows, fence lines and vegetation as demarcation of lots</li> </ul>	<ul style="list-style-type: none"> <li>• potential for agricultural use</li> <li>• poor drainage may be a hindrance to development</li> </ul>	<ul style="list-style-type: none"> <li>• maintain old-field biophysical values and minimize impact on wildlife use (voles and raptors) by restricting trail access to east edge of field</li> <li>• conserve native soils by avoiding fill</li> <li>• maintain trees and hedgerows for wildlife habitat</li> <li>• periodic mowing of old-field will be required to maintain habitat value</li> <li>• develop low-impact trail along old slough alignment</li> <li>• interpret historic slough; seek to acquire portion of slough on private property for future trail, interpretation</li> </ul>
3	<ul style="list-style-type: none"> <li>• large grouping of mature trees provide good wildlife habitat (birds, amphibians and small mammals)</li> <li>• well developed shrub and herb layers</li> </ul>	<ul style="list-style-type: none"> <li>• original crown grant boundary and subdivision evident</li> <li>• site remains recall original building cluster</li> <li>• hedgerows and fence lines as demarcation of lots</li> <li>• ditches present</li> <li>• vegetation and access present and associated with original homestead</li> <li>• structure from later occupation</li> </ul>	<ul style="list-style-type: none"> <li>• spatial variety creates good trail potential</li> <li>• potential interpretation of connection between buildings/landscape, heritage trees</li> <li>• specimen trees need care</li> <li>• trail safety/perception of safety in more enclosed areas may have to be addressed</li> </ul>	<ul style="list-style-type: none"> <li>• protect large, mature trees for wildlife values</li> <li>• manage trees to retain values (i.e., remove invasive species)</li> <li>• avoid access through tree area; keep access to edge of tree area and use fences if necessary</li> <li>• develop low-impact trail, maximizing spatial interest and connecting to Unit 1 and River Road</li> <li>• interpret former building footprints, heritage trees</li> </ul>

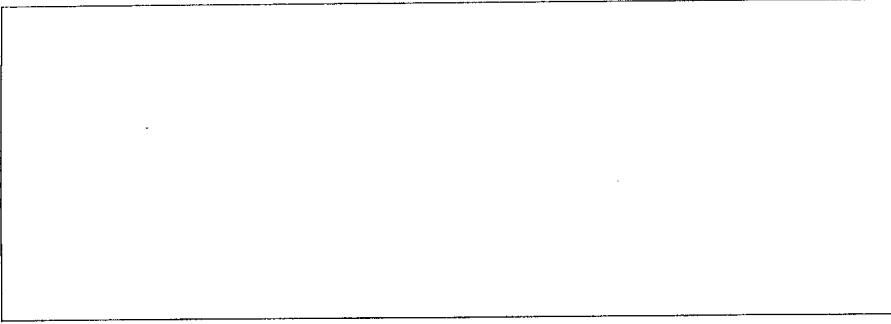
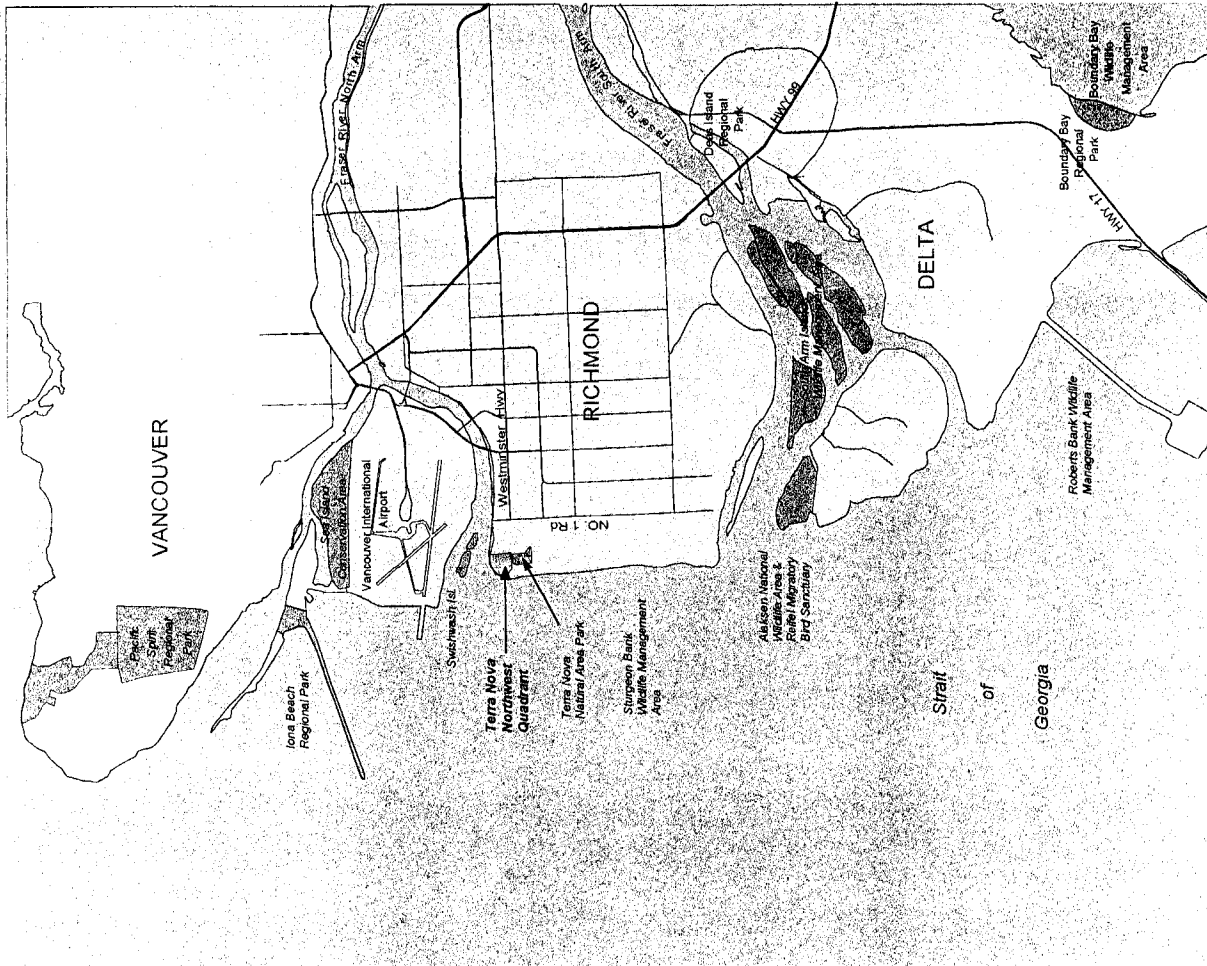


L'scape Unit	Biophysical Attributes Summary	Heritage Values Summary	Landscape Character Summary	Public Access & Use Guidelines
4	<ul style="list-style-type: none"> <li>residential lawn and yard</li> </ul>	<ul style="list-style-type: none"> <li>new residential development follows original pattern</li> <li>original access and traces of building cluster</li> <li>ditches present</li> <li>important views and vistas</li> </ul>	<ul style="list-style-type: none"> <li>potential for connection and/or service access from interior of site to River Road</li> </ul>	<ul style="list-style-type: none"> <li>no major constraints on public access; could serve as site entrance/ service area or buffer for high environmental values in Unit 5</li> </ul>
5	<ul style="list-style-type: none"> <li>large grouping of mature trees provide good wildlife habitat (birds, amphibians and small mammals)</li> <li>well developed shrub and herb layer</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision evident</li> <li>vegetation associated with original homestead and as boundary demarcation</li> <li>cannery ownership/lease</li> <li>original access</li> <li>ditch and dyke present</li> </ul>	<ul style="list-style-type: none"> <li>spatial variety, views create good trail potential</li> <li>potential interpretation of connection between buildings/landscape, heritage trees</li> <li>specimen trees need care</li> <li>neighbouring private property needs to be respected</li> <li>trail safety/perception of safety in more enclosed areas may have to be addressed</li> </ul>	<ul style="list-style-type: none"> <li>protect large, mature trees for wildlife values</li> <li>manage trees to retain values (i.e., remove invasive species)</li> <li>avoid new trails/access through treed area; keep access to edge of trees</li> <li>use existing access road for low-impact trail connection between River Road and site interior</li> <li>interpret historical relationship between cannery industry and residences, orchard remnant</li> </ul>
6	<ul style="list-style-type: none"> <li>developing old field with adjacent hedgerow provides wildlife habitat for raptors and mammals</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision present</li> <li>agricultural fields present</li> <li>fence lines as demarcation of original lots</li> <li>ditches present</li> <li>barn remnants on site</li> </ul>	<ul style="list-style-type: none"> <li>potential for agricultural use</li> <li>poor drainage may be a hindrance to development</li> <li>could provide open space contrast to trail in Unit 5</li> </ul>	<ul style="list-style-type: none"> <li>maintain and enhance hedgerows for wildlife and heritage value</li> <li>develop open space trail connection with Unit 5</li> <li>one of the site units that could be developed for agriculture</li> </ul>
7	<ul style="list-style-type: none"> <li>established orchard and hedgerows</li> <li>good all-season habitat for passerines (breeding, migration, wintering)</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision present</li> <li>original settlers' dwellings and original building cluster remain</li> <li>unique architectural style</li> <li>front/rear yard and vegetation associated with original homestead</li> <li>fences as original lot demarcation</li> <li>historic access and circulation</li> <li>orchard remnants (largest in site), small-scale elements present</li> <li>ditch and dyke present</li> <li>association with stage line/post office and cannery</li> </ul>	<ul style="list-style-type: none"> <li>moderate spatial variety creates good trail potential</li> <li>potential interpretation of connection between buildings/landscape, specimen trees</li> <li>potential to renovate existing orchard</li> <li>derelict structures may be fragile/dangerous</li> </ul>	<ul style="list-style-type: none"> <li>maintain hedgerows for wildlife value</li> <li>enhance and interpret front garden/house/back field typology</li> <li>reuse historical buildings if structurally feasible; interpret old post office and stagecoach route</li> <li>protect, interpret, and possibly re-establish orchard trees</li> <li>maintain hedgerows (for historical and wildlife values)</li> <li>develop trail, maximizing spatial interest and views</li> </ul>

L'scape Unit	Biophysical Attributes Summary	Heritage Values Summary	Landscape Character Summary	Public Access & Use Guidelines
8	<ul style="list-style-type: none"> <li>old field dominated by purple loosestrife</li> <li>good hedgerows for wildlife</li> <li>purple loosestrife should be controlled</li> </ul>	<ul style="list-style-type: none"> <li>original crown grant boundary and subdivision present</li> <li>agricultural fields</li> <li>important views/vistas</li> </ul>	<ul style="list-style-type: none"> <li>potential for agricultural use; potential for unprogrammed active recreation or equestrian facilities</li> <li>adjacent private residential development a potential development constraint</li> </ul>	<ul style="list-style-type: none"> <li>maintain hedgerows for wildlife</li> <li>control purple loosestrife and ensure that future uses and access do not contribute to its spread (i.e., seeds in the soil transported on the boots of community gardeners)</li> <li>interpret historical development pattern of clusters of residences along dyke with deep, narrow fields behind</li> <li>develop trail, open space for informal active recreation</li> <li>one of the best site units (along with Unit 9) for potential agricultural development</li> </ul>
9	<ul style="list-style-type: none"> <li>developing old field with abundant vole runways in places</li> </ul>	<ul style="list-style-type: none"> <li>original crown grant boundary and subdivision present</li> <li>agricultural fields</li> <li>original access remains</li> <li>vegetation associated with original homestead</li> </ul>	<ul style="list-style-type: none"> <li>potential for agricultural use; potential for unprogrammed active recreation</li> <li>adjacent private residential development a potential development constraint</li> </ul>	<ul style="list-style-type: none"> <li>retain trees and encourage hedgerows for wildlife</li> <li>remove blackberries from field</li> <li>interpret historical development pattern of clusters of residences along dyke with deep, narrow fields behind; use historic driveway alignments for trail access</li> <li>develop some open spaces for informal active recreation</li> <li>one of the best site units (along with Unit 8) for potential agricultural development</li> </ul>
10	<ul style="list-style-type: none"> <li>hazelnut trees provide some food and habitat value for small mammals and birds</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision evident</li> <li>post 1940 orchard maintains agricultural</li> </ul>	<ul style="list-style-type: none"> <li>good potential for agricultural/interpretive development</li> <li>potential interpretive connection to Buemann residence</li> <li>spatial interest creates good trail potential</li> </ul>	<ul style="list-style-type: none"> <li>enhance wildlife and aesthetic values by planting groundcover</li> <li>develop low-impact trail, maximizing spatial interest and views</li> <li>interpret connection between residence and orchard</li> <li>develop orchard for demonstration</li> <li>develop buffer between unit and adjacent private land</li> </ul>
11	<ul style="list-style-type: none"> <li>large grouping of mature trees provide excellent wildlife habitat; heavily used by birds</li> <li>owl and other raptor roosting area</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision evident</li> <li>pattern of development after construction of Westminster Highway after c.1940</li> <li>vegetation associated with residence</li> </ul>	<ul style="list-style-type: none"> <li>potential interpretive connection to Buemann residence</li> <li>spatial variety creates good trail potential</li> <li>yard and woodlot need ongoing maintenance</li> </ul>	<ul style="list-style-type: none"> <li>prevent public access to woodlot portion of unit</li> <li>develop trail in maintained yard only; interpret connection between buildings and landscape</li> <li>reuse building if structurally feasible (semi- or non-public use, to minimize impact on woodlot)</li> </ul>

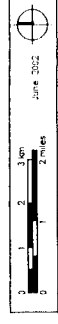
L'scape Unit	Biophysical Attributes Summary	Heritage Values Summary	Landscape Character Summary	Public Access & Use Guidelines
12	<ul style="list-style-type: none"> <li>mowed field that is seasonally flooded in winter</li> <li>provides important waterfowl habitat in winter</li> <li>good hedgerow provides habitat for birds and small mammals</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision evident</li> <li>agricultural fields present</li> <li>ditch present</li> <li>hedgerows as boundary demarcation</li> <li>important views/vistas</li> </ul>	<ul style="list-style-type: none"> <li>potential for unprogrammed active recreation or equestrian use</li> <li>potential for agricultural use</li> <li>drainage a potential development constraint</li> </ul>	<ul style="list-style-type: none"> <li>maintain as actively mowed/seasonally flooded field for wildlife and historical values (original open field development pattern behind residences)</li> <li>retain hedgerows for wildlife use</li> <li>some open space can be used for informal active recreation; access to be restricted in winter months when fields are flooded/used by waterfowl</li> <li>could serve as site access/service area</li> <li>building could be reused if structurally feasible</li> </ul>
13	<ul style="list-style-type: none"> <li>residential lawn and yard</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision evident</li> <li>pattern of development after construction of Westminster Highway after c. 1940</li> <li>vegetation associated with residence</li> </ul>	<ul style="list-style-type: none"> <li>potential for connection and/or service access from interior of site to Westminster Highway</li> </ul>	<ul style="list-style-type: none"> <li>could serve as site access/service area</li> <li>building could be reused if structurally feasible</li> </ul>
14	<ul style="list-style-type: none"> <li>residential lawn and yard</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision evident</li> <li>pattern of development after construction of Westminster Highway after c. 1940</li> <li>vegetation associated with residence</li> </ul>	<ul style="list-style-type: none"> <li>potential for connection and/or service access from interior of site to Westminster Highway</li> </ul>	<ul style="list-style-type: none"> <li>could serve as site access/service area</li> <li>building could be reused if structurally feasible</li> </ul>
15	<ul style="list-style-type: none"> <li>mix of old field, trees, shrubs and hedgerows provides excellent wildlife habitat for passerines, raptors and small mammals</li> <li>spirea and blackberries need managing</li> </ul>	<ul style="list-style-type: none"> <li>original subdivision present</li> <li>agricultural fields present</li> <li>ditch present</li> </ul>	<ul style="list-style-type: none"> <li>potential for passive and/or informal active recreation</li> </ul>	<ul style="list-style-type: none"> <li>develop low-impact trail along edge with Unit 12, maximizing spatial interest and views</li> <li>access should be restricted in winter months when fields are used by waterfowl</li> <li>retain woodlot trees and hedgerows for wildlife value</li> <li>control spirea and blackberry encroachment</li> </ul>
16	<ul style="list-style-type: none"> <li>mix of old field and hedgerows provide some wildlife habitat for birds and small mammals</li> <li>potential for old field management</li> <li>significant native soils</li> </ul>	<ul style="list-style-type: none"> <li>agricultural fields present</li> <li>evidence of second layer of use</li> </ul>	<ul style="list-style-type: none"> <li>framed views create open space</li> <li>trail potential</li> <li>equestrian use would fit prior use of land</li> <li>potential for agricultural use</li> </ul>	<ul style="list-style-type: none"> <li>conserve native soils by avoiding fill and other major disturbances</li> <li>some open space can be used for informal passive or active recreation</li> <li>develop open space trail connecting to Unit 17/River Road/Westminster Highway, maximizing views</li> </ul>
17	<ul style="list-style-type: none"> <li>large grouping of mature, unique trees that provide very good wildlife habitat at all times of year</li> <li>highest diversity of plant species in study area</li> </ul>	<ul style="list-style-type: none"> <li>agricultural fields present</li> <li>evidence of second layer of use</li> <li>re-use of internal circulation pattern by subsequent inhabitants</li> <li>trees and fences define circulation and boundaries</li> </ul>	<ul style="list-style-type: none"> <li>excellent potential for trail along treed driveway</li> <li>potential interpretive/arboretum development</li> </ul>	<ul style="list-style-type: none"> <li>develop low-impact trail along existing driveway, connecting to Units 1, 16, Westminster Hwy., maximizing spatial interest and views</li> <li>prevent access off of trail, to avoid trampling of tree root structures</li> <li>retain, protect and interpret collection of mature, unique trees</li> <li>tree management required (i.e., removal of invasive species)</li> </ul>

L'scape Unit	Biophysical Attributes Summary	Heritage Values Summary	Landscape Character Summary	Public Access & Use Guidelines
18	<ul style="list-style-type: none"> <li>residential lawn and yard</li> </ul>	<ul style="list-style-type: none"> <li>agricultural fields present</li> <li>evidence of second layer of use</li> <li>new residential development follows original pattern</li> <li>ditch and dyke present</li> </ul>	<ul style="list-style-type: none"> <li>potential for adaptive re-use of residential buildings</li> <li>potential interpretation of connection between buildings/landscape</li> </ul>	<ul style="list-style-type: none"> <li>no biophysical constraints on public access or use</li> <li>reuse building if structurally feasible</li> <li>interpret connection between building site, old access bridge, and landscape</li> <li>consider trail connection to River Road at old access bridge</li> </ul>
19	<ul style="list-style-type: none"> <li>perimeter drainage ditch has a variety of grasses and shrubs and provides good wildlife habitat</li> <li>while foreshore area was not specifically included in this study it is well documented as a highly productive intertidal marsh area and is coded red by FREMP</li> </ul>	<ul style="list-style-type: none"> <li>ditch pattern a response to low-lying topography and wet soils</li> <li>dyke a response to river floods, and its construction changed the shape of the landscape</li> <li>ditches and dyke represent a city-wide historical pattern</li> <li>original circulation patterns are still evident</li> <li>foreshore has natural heritage features, important views/vistas, and is the location of original cannery site and its historical associations</li> <li>original settlement was oriented to the river which creates a site boundary</li> <li>Westminster Highway was previously Road No. 19, gazetted 1916, and terminated at the east boundary of site until c.1940</li> </ul>	<ul style="list-style-type: none"> <li>dyke provides potential connections/views into and from the study area</li> <li>Westminster Highway's spatial character creates good trail potential</li> </ul>	<ul style="list-style-type: none"> <li>Avoid contamination of water quality in ditch and retain vegetation along the study properties side of ditch (south and east edges of ditch)</li> <li>provide linkage, through River Road and Westminster Highway, around private properties between internal trails</li> <li>preserve and enhance views into the study area and outward to river and Sturgeon Bank</li> <li>interpret cannery history, historical access to interior of site, wildlife in foreshore, airport to north</li> <li>manage pedestrian/vehicular conflict</li> <li>develop west end of Westminster Highway as "country lane"; establish connection between study area and nature park to south</li> </ul>



**PROJECT TEAM**

- CITY OF RICHMOND COMMUNITY SERVICES DIVISION
- URBAN PLANNING CONSULTANTS LTD.
- LANDSCAPE ARCHITECTURE ARCHITECTS ASSOCIATION
- LANDSCAPE ARCHITECTURE ARCHITECTS ASSOCIATION
- ZENISE COOK, CLARKE REPORTS CONSULTANT
- E/ECO CONSULTANTS LTD. SUELE D'AMICO, M. MARY
- KEN SUMMERS BIOLOGICAL SERVICES, WASH. M. MARY
- ROBERTSON ENVIRONMENTAL SERVICES LTD.
- VEGETATION INVENTORY
- GIS INNOVATIONS INC., GIS SERVICES, GRANT

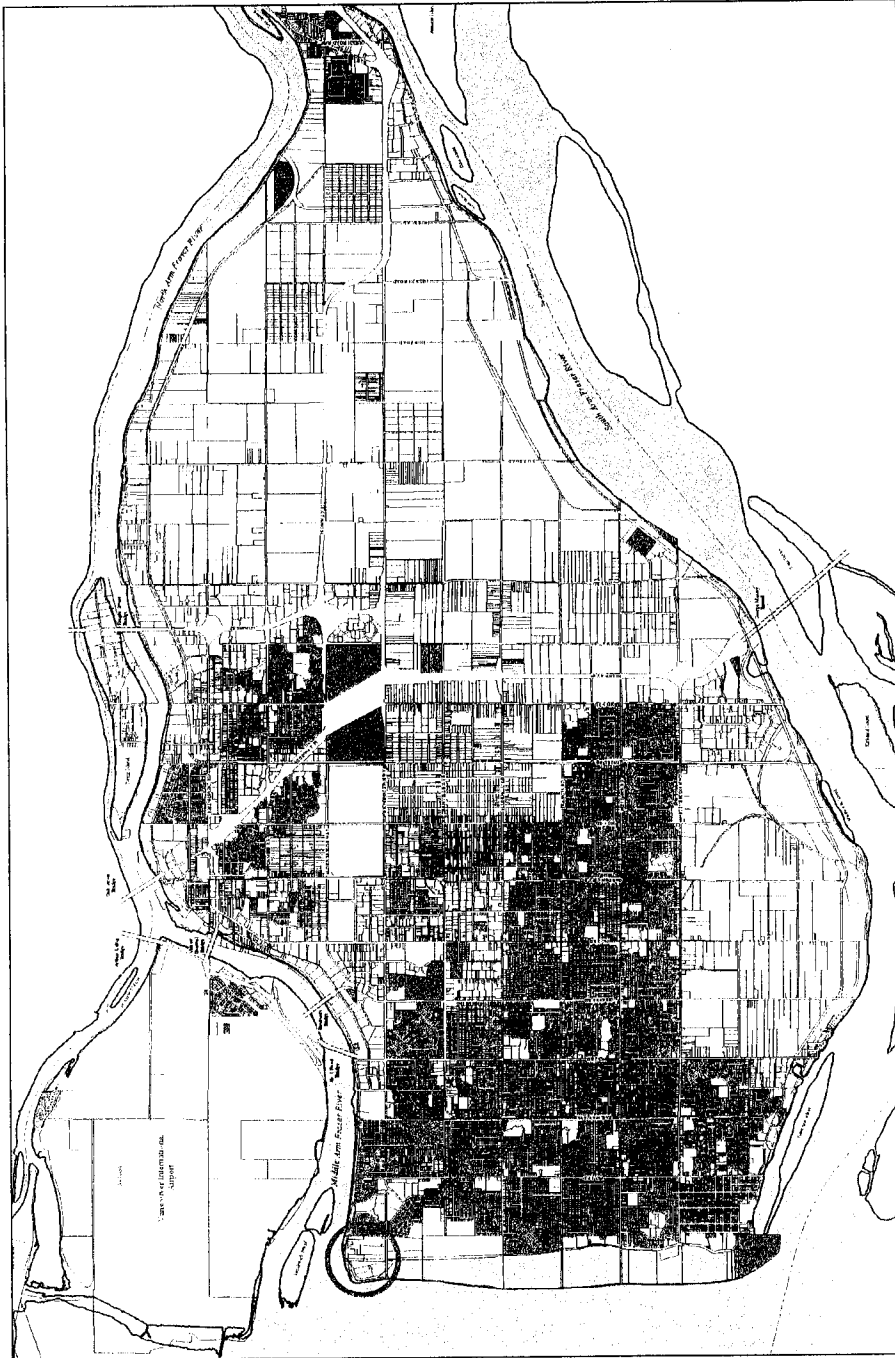


**LEGEND**

Open Space and School Sites  
within Richmond

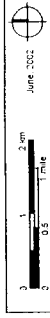


Terra Nova Northwest Quadrant



**PROJECT TEAM**

- ▶ CITY OF RICHMOND COMMUNITY SERVICES DIVISION
- QUADRA PLANNING CONSULTANTS LTD.  
Project Management & Environmental Planning
- PAUL & SHARON JAMES CONSULTANTS LTD. (SCULPTURE & PLANNING)
- PAUL & SHARON JAMES CONSULTANTS LTD. (CULTURE & PLANNING)
- BRUCE COOK - Cultural Resources Inventory
- ELECO CONSULTANTS LTD. - Site & Change Inventory
- GEN SUMMERS ENVIRONMENTAL SERVICES - Waste Inventory
- GEN SUMMERS ENVIRONMENTAL SERVICES LTD.  
Environmental Assessment
- DESIGN PARTNERS INC. - GIS Specialist Support



**OPEN SPACE CONTEXT**

**TERRA NOVA NORTHWEST QUADRANT - Inventory & Analysis**

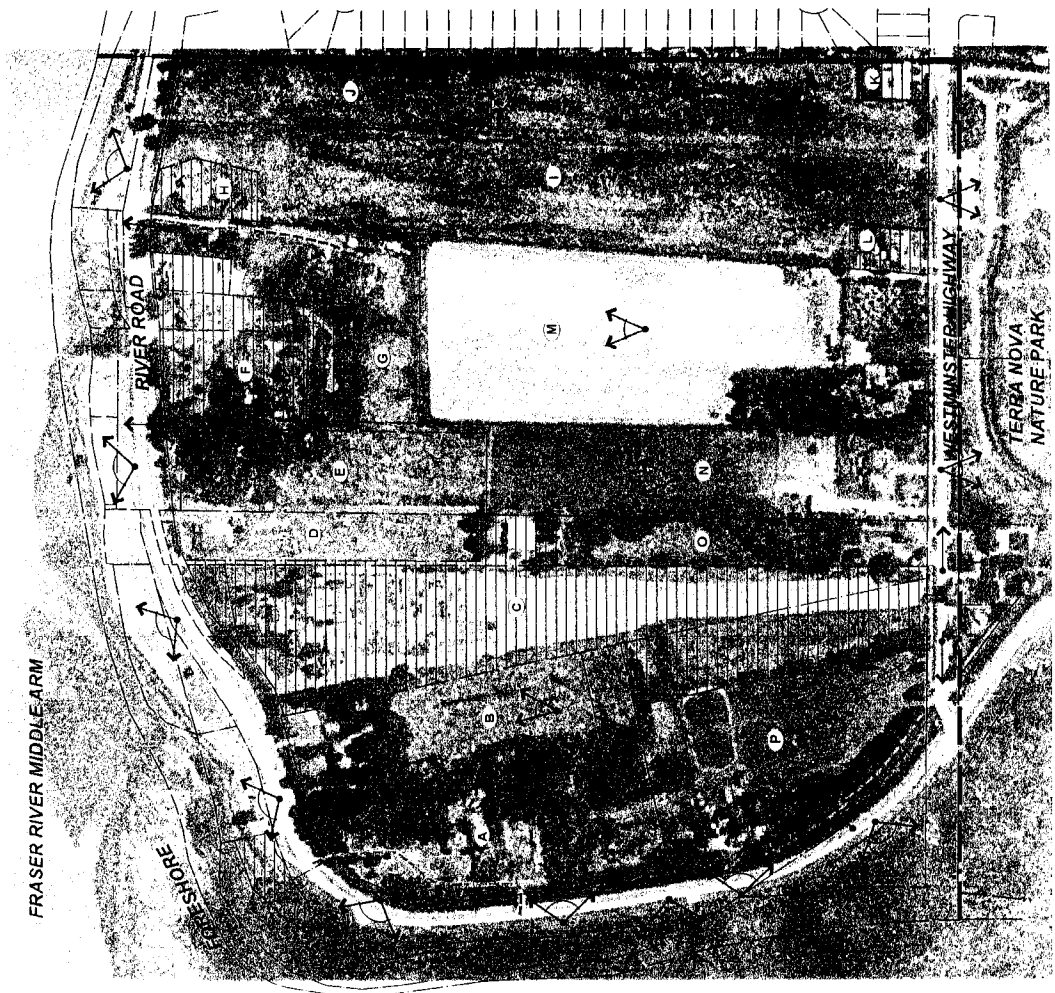
**Plate 2**

**LEGEND**

	STUDY BOUNDARY
	PROPERTY LINES
	PRIVATE PROPERTY
	EXISTING INTERNAL TRAILS
	SIGNIFICANT VIEW
	EXISTING PROPERTY

**PROJECT TEAM**

- CITY OF RICHMOND COMMUNITY SERVICES DIVISION
- LANDSCAPE ARCHITECTURE & PLANNING
- LANDSCAPE ARCHITECTURE & PLANNING
- LANDSCAPE CHARACTER ASSESSMENT DESIGN
- DEANISE COOK, Landscape Architect
- ERIC COOPER, Landscape Architect
- KEN BLAMERS, Biologist
- ROBERTSON ENVIRONMENTAL SERVICES LTD.
- SPRINGFIELD INC.



**TERESA NOVA NATURE PARK STUDY AREA & EXISTING CONDITIONS Plate 1**







SOIL MAP UNIT	SOIL VALUES RATING	High	Medium	Low
Soil Map Unit 1 - Class: Clayso - Reg. 30p50	H			
Soil Map Unit 2 - Class: Clayso - Reg. 30p50	M			
Soil Map Unit 3 - Class: Clayso 10% - Reg. 30p50 13% - Reg. Humic Clayso 20% - Significantly Altered Soils	L			

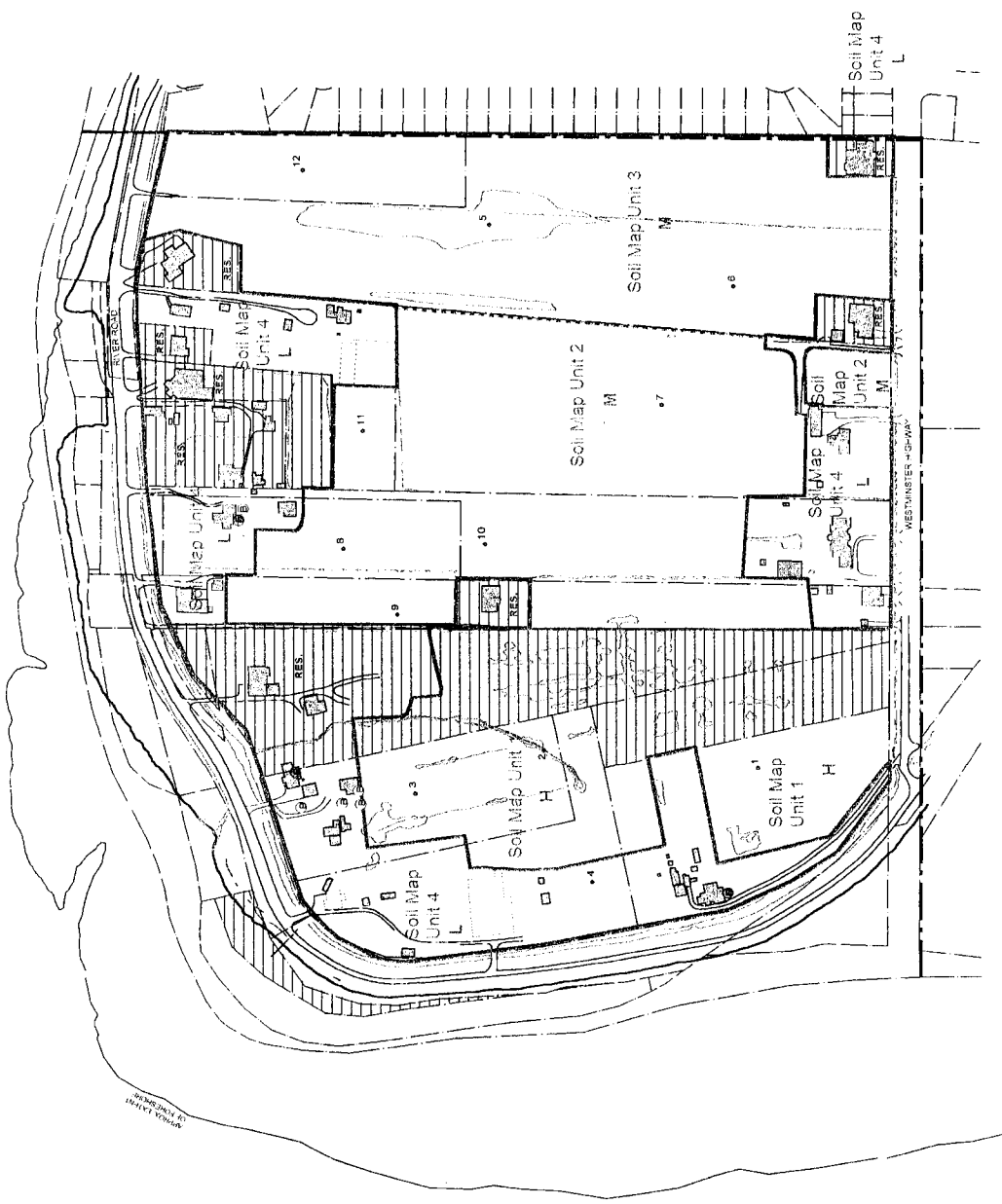
  

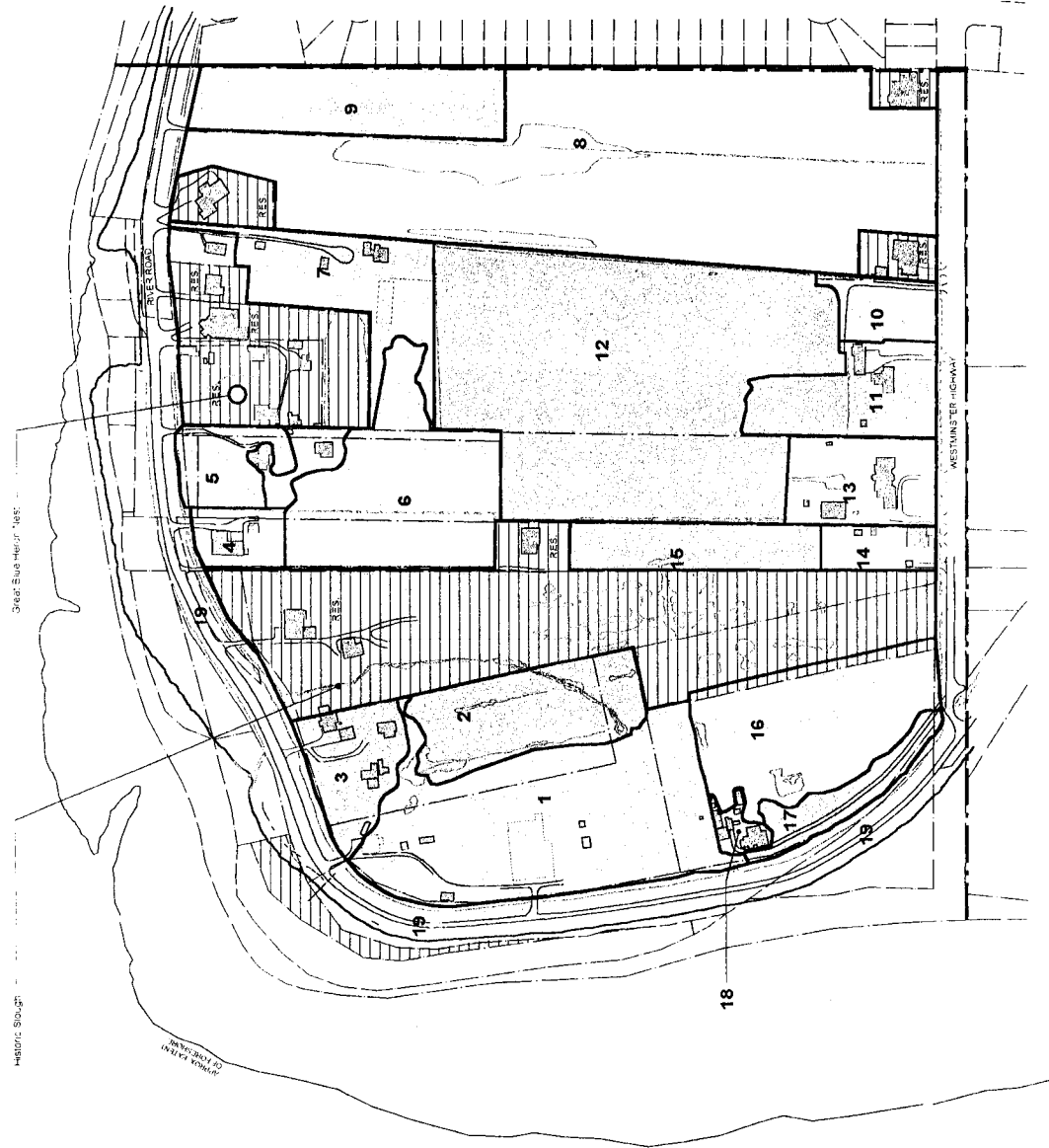
●	ABOVE GROUND FUEL STORAGE
○	BARREL
•	SOIL INSPECTION SITE
---	SOIL MAP UNIT BOUNDARY
.....	ESTIMATED SOIL MAP UNIT BOUNDARY
~	WATER FEATURE (pond, stream, pool, or low area)
- - -	STUDY BOUNDARY
	PRIVATE PROPERTY

**PROJECT TEAM**

CITY OF RICHMOND COMMUNITY SERVICES DIVISION  
 JENNIFER LAMAR CONSULTANTS, LTD.  
 Project Management / Environmental Planning  
 SHARP & DAMONG LANDSCAPE ARCHITECTURE & PLANNING  
 Landscape Character Assessment / Design  
 DERYSE COOK, Culture Resources Inventory

EMCO CONSULTANTS LTD. - Soils & Drainage Inventory  
 KEN SUMMERS BIOLOGICAL SERVICES - Water Inventory  
 ROBERTSON ENVIRONMENTAL SERVICES LTD.  
 Hydrogeology / Water Inventory  
 245 HURONTARIO ST. 2ND FL. ONTARIO, CANADA





**HABITAT UNITS & OVERALL SENSITIVITY RATING**

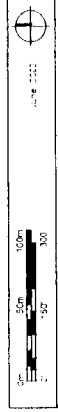
9	H High
9	M Moderate
9	LM Low Moderate
9	L Low

- Habitat Type**
- 1 Backswamp Thicket with Old Field Pathways
  - 2 Old Field and Remnant Slough
  - 3 Wooded
  - 4 Wooded
  - 5 Wooded
  - 6 Old Field
  - 7 Old Field
  - 8 Old Field
  - 9 Old Field
  - 10 Old Field
  - 11 Old Field
  - 12 Old Field Seasonally Flooded Wooded
  - 13 Old Field
  - 14 Old Field
  - 15 Old Field
  - 16 Old Field
  - 17 Old Field
  - 18 Old Field
  - 19 Pinebarren Club

- WATER FEATURES:**  
DITCH, SLOUGH, MARSH, POND, LOW AREA
- STUDY BOUNDARY**
- PRIVATE PROPERTY**

**PROJECT TEAM**

- CITY OF RICHMOND CONSULTING SERVICES INC.
- QUANTA PLANNING CONSULTANTS LTD.
- STANLEY CONSULTING GROUP INC.
- SHARP & BLACKWOOD ARCHITECTURE PLANNING
- LANDMARK CONSULTANTS GROUP
- DEBUSE CONSULTING GROUP INC.
- EVANS CONSULTANTS LTD. - Soils & Drainage Inventory
- KEEN SUMMERS BIOLOGICAL SERVICES - Wetland Inventory
- ROBERTSON ENVIRONMENTAL SERVICES LTD. - Vegetation Inventory
- DB INNOVATIONS INC. - 2D 3D/ARXIS ORTHO

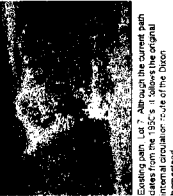




These photos show the original layout of the site. The original path of the original owner is seen in the aerial photograph (above) and in the ground level photograph (below).



Original path, Lot 7. Although the current path is a different width, the original normal circular field of the Dutton homestead.



Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



Old bridge indicates the original entry to Lot 8.



View from Lot 3. The original site of the Dutton homestead.



Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



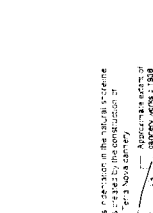
Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



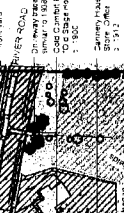
Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



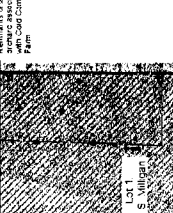
Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



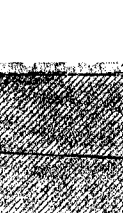
Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



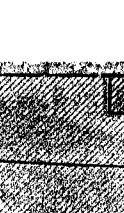
Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



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Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.



Original site of the Dutton homestead. Although the current path is a different width, the original normal circular field of the Dutton homestead.

# LEGEND

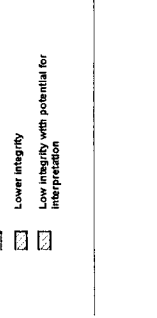
- HERITAGE BUILDINGS:**
- Homestead dwellings
  - Cannery related buildings
- EXISTING RESIDENCES**
- ORIGINAL ACCESS ROADS (1938 PLAN)
  - FENCE LINES
  - 1898 SUBDIVISION LINES
  - SIGNIFICANT VEGETATION PATTERNS
  - STUDY BOUNDARY
  - SIGNIFICANT VIEWS
  - HERDEROWNS
  - DITCHES
  - SIGNIFICANT TREES

**RELATIVE INTEGRITY:**  
 Relative integrity has been assessed much of its integrity overall, the relative integrity of the individual parts is presented as a decision-making tool for park planning

- Higher integrity
- Moderate to high integrity
- Moderate integrity
- Low to moderate integrity
- Lower integrity
- Low integrity with potential for interpretation

**PROJECT TEAM**

- CITY OF ROCKWOLD COMMUNITY SERVICES DIVISION
- SHARON PLANNING CONSULTANTS LTD
- SHARON A. JAMNICK
- LANDSCAPE ARCHITECTURE PLANNING
- SHINE BOOK: CULTURAL, HISTORICAL PLANNING
- EVES CONSULTANTS LTD
- KEN SHAMERS BIOLOGICAL SERVICES
- ROBERTS ENVIRONMENTAL SERVICES LTD



June 2002

# HERITAGE EXISTING CONDITIONS SITE INTEGRITY

**Plate 8**

