

1999-2004

Fraser Basin

5 Year Action Plan



Challenges to Sustainability in the Fraser Basin

The Basin, the area drained by the Fraser River and its many tributaries, comprises more than 25% of B.C.'s land mass. It supports more than two-thirds of the province's population and contributes 80% of its gross domestic product. The Basin is blessed with abundant natural resources - including forests, agricultural lands, fish and wildlife and mineral resources - which support the Basin's economy.

It is expected that the population of the Basin will increase to 3.6 million people over the next 20 years. As the population of the Basin continues to grow, issues that challenge the well-being of social, economic and environmental systems will continue to emerge. Effectively addressing these emerging issues requires that all interests work together towards common goals and objectives.

Five Year Action Plan

The Five Year Action Plan is a plan *for the Basin* that inventories and monitors the commitments and efforts of a diverse range of interests to address the interrelated social, economic and environmental challenges facing the Basin. The plan is a specific response to the Council's *Charter for Sustainability*.

The Actions in the Five Year Action Plan represent a collective effort by various Basin organizations. Many are being "done" by others. The common link between all of the Actions is that they are all supported by the Council. This support may take a number of forms including:

- providing a mechanism for monitoring, reporting and increasing profile;
- working as a partner to facilitate implementation of a specific action; and/or
- providing active leadership in implementing an action (*highlighted in blue in the Summary of Actions on back page*).

Updating the Plan and Tracking Progress

The rolling Five Year Action Plan is updated annually and progress reported. Over the course of the year, the Council looks for new actions to incorporate into the Plan. Updating the Plan assists in acknowledging progress that has been achieved and addressing new issues that may arise.

Supporting resources

Beginning in 2000, a Fraser Basin Council web page will be available to provide additional information on actions including: contacts with organizations undertaking actions and an inventory of existing and completed actions.



Table of Contents

Basin-Wide/Inter-Regional2

Region - Fraser Valley7

Region - Greater Vancouver8
Squamish, Pemberton

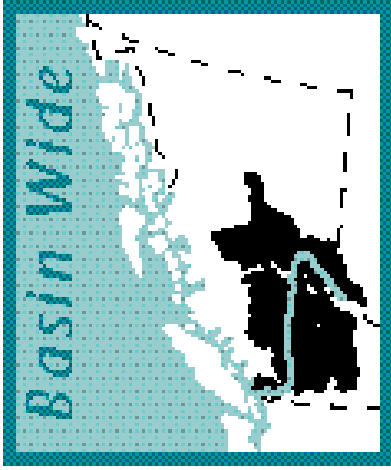
Region - Upper Fraser11

Region - Thompson13

Region - Cariboo-Chilcotin15

Summary of Actions16





GOAL

PARTICIPATION OF ABORIGINAL PEOPLE IN DECISION MAKING TO ENSURE THAT DECISIONS RESPECT THEIR CULTURES AND RIGHTS.

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ACTION The Fraser Basin Council will facilitate the development of an action plan to respond to a number of recommended actions identified in the draft Integrated Flood Hazard Management Strategy by 2000.

Task	Timeline	Status
• Establish Joint Program Committee.	1998	Complete
• Develop Action Plan.	1999	Complete
• Implementation of Action Plan.	2000	On schedule

Update

In addition to the Joint Program Committee, five sub-committees were established in 1998 to assist in the implementation of the Integrated Flood Hazard Management Strategy. They are Flood Proofing and Land Use Planning, Dike and Channel Maintenance and Habitat, Emergency Response and Recovery, Public Education and Finance. The Action Plan developed in 1998-99 includes actions in five areas including; collaboration and networking, development of tools and resources, development of recommendations, research/information exchange and communications/awareness raising.

ACTION Indian and Northern Affairs Canada will develop a flood/erosion damage mitigation plan for reserve lands in the Fraser Basin by 2001.

Task	Timeline	Status
• Survey 88 First Nations bands in the Basin to determine the need and interest for flood or erosion mitigation work.	1999	Complete
• Develop a mitigation plan including a prioritized list of Band territories requiring mitigation work.	2000	On schedule

Update

A Flood and Erosion Mitigation Survey of reserve lands is underway and is scheduled for completion by July 1999. Following the survey, a mitigation plan, flood plain mapping and prioritized listing of required mitigation works will be undertaken. Because of immediate flood concerns on reserve lands (Spring 1999), six million dollars has been provided to begin addressing priority flood hazard issues.

ACTION Transport Canada will develop and implement a Pacific Region Departmental Environmental Management System by 2003.

Tasks	Timelines	Status
• Complete environmental management plan.	1998	Complete
Reduction of environmental impacts arising from Transport Canada operations and regional contributions to national Transport Canada goals of:		
• 5% water and energy use reduction;	2000	On schedule
• 10% reduction in hazardous and non-hazardous waste; and	2000	On schedule
• management of contaminated land.	2003	On schedule
• Identification of new/emerging environmental management issues.	1998/2003	On schedule

Update

The Draft Environmental Management Plan (EMP) was completed December 1998. The draft EMP will be finalized by June 1999 and implementation will begin. Transport Canada's EMP fulfills its requirement as a federal department to develop environmental management systems in conjunction with its Sustainable Development Strategy.

ACTION Farm Folk/City Folk, in conjunction with the agricultural community, will stage three symposia to explore challenges facing agriculture and bring forward recommendations for change to all orders of government as well as non-government organizations by 2001.

Task	Timeline	Status
Organization and implementation of three symposia.	2000	On schedule

Update

No symposia were undertaken in 1999. Potential symposium topics still being explored include: developing an agri-food policy for British Columbia, water and agriculture, international trade agreements and the use of genetically modified organisms in agriculture

ACTION Environment Canada and Health Canada, together with several other key partners, will complete a major ecosystem initiative (see sidebar) designed to improve the health of ecosystems in the Georgia Basin by 2003.

Task	Timeline	Status
• Implement a health effects plan dealing with air toxicity, water quality and quality of life.	1999	On schedule

Update

Health Canada and Environment Canada are working together to incorporate human health perspectives into GBEL initiatives relating to air toxicity, water quality and quality of life. In 1999 a Health Canada plan for addressing a broad range of human health issues will be available.

Task	Timeline	Status
• Contribute to the development and implementation of a Fraser Valley Air Quality Management Plan that will ensure the achievement of ambient air quality objectives and improved visibility in the Valley.	2000/2001	On schedule

Update

19998/99 projects include:an inventory of emissions for the Lower Fraser Valley airshed to assist in assessing the effectiveness of emission reduction strategies;study to quantify emissions of sulphur and ammonia from the Strait of Georgia associated with the production of "white haze" in the Lower Fraser Valley and purchase of atmospheric samplers to measure visibility and enhance monitoring sites in the Lower Fraser Valley Air Quality Monitoring Network.

Task	Timeline	Status
• Reduce non-point source pollution and levels of contaminants of concern (e.g.endocrine disrupters and agricultural pesticides),and identify emerging toxic chemicals.	2003	On schedule

Update

19998/99 projects include;selection of Elk and Yorkston creeks as pilots for urban runoff studies, agreement with the City of Surrey on urban development practices to minimize stormwater runoff, partnership funding for a coordinator to implement the Salmon River Watershed Management plan, assessment of the effects of agricultural and urban non-point source pollutants on Elk and Clayburn Creeks and assessing changes in nitrate concentrations in the Abbotsford aquifer due to changing land use practices.

Task	Timeline	Status
• Secure wildlife habitat averaging 32 hectares per year for five years,beginning in 1998,under the Pacific Estuary Conservation Program.	1998/2003	On schedule

Update

19998/99 projects include;72 ha of habitat lands secured including 7.45 ha in the Basin and the development of a catalogue of high value sites within the Georgia Basin/Fraser Valley to guide future acquisitions.

ACTION The Ministry of Environment, Lands and Parks will develop and implement strategies and actions focusing on greenhouse gases, ozone depleting substances, urban smog, fine particulates, clean transportation, and airshed planning by 2000.

Task	Timeline	Status
• Launch the Greenhouse Gas Emissions Reduction Trading Pilot in partnership with the Greater Vancouver Regional District and other governments and stakeholders.	1998	Complete
• Participate in the implementation of the Prince George airshed management plan.	1998	Complete
• Launch a mandatory emissions testing program for trucks and buses.	1999	On schedule
• Require the preparation of an airshed management plan for the Quesnel area.	1999	On schedule

Update

The Greenhouse Emissions Reduction Trading pilot was launched in June of 1998. The pilot provides an opportunity for organizations faced with high cost emissions reduction options to purchase lower cost emissions reduction options. Also in 1998,an airshed management plan for the Fraser Valley Regional District was completed and work begun on implementing an airshed management plan for Prince George. Contingent on funding, work will proceed on developing airshed management plans for Quesnel and Williams Lake.

The Georgia Basin Ecosystem Initiative, (GBEI) launched in December of 1998 brings together a range of partners working to address priorities in the areas of air and water quality, toxic contaminants entering the environment, and loss of wildlife habitat and communities

GOAL

MANAGEMENT OF WATER RESOURCES TO PROTECT AND MAINTAIN WATER QUALITY, SUPPORT MAINTENANCE OF ECOSYSTEMS AND PROVIDE CERTAINTY OF ACCESS FOR ALL USERS.

GOAL

DIVERSE AND ABUNDANT FISH STOCKS, SUPPORTED BY HEALTHY HABITAT TO PROVIDE FOR THE NEEDS OF ALL USERS.

ACTION The Ministry of Environment, Lands and Parks will promote a long-term and integrated view of resource management and land use planning in the Fraser Basin. Strategic planning will be completed for all areas within the Basin by 2003.

Task	Timeline	Status
• Coordinate and participate in implementation of the Robson Valley Land and Resource Management Plan (LRMP) and the Prince George LRMP.	1998	Complete
• Work with the Ministry of Forests to finalize biodiversity emphasis options for landscape units in the Prince George, Cariboo, Kamloops and portions of the Vancouver Forest Regions.	1998/1999	On schedule
• Coordinate and participate in development and implementation of the Okanagan-Shuswap LRMP and the Lillooet LRMP.	2000	On schedule
• Undertake planning with the Ministry of Forests to establish basic biodiversity objectives under the <i>Forest Practices Code</i> in the Prince George, Cariboo, Kamloops and portions of the Vancouver Forest Regions.	2001	On schedule

Update

Robson Valley and Ft. St. James LRMP: Final plan approved Spring 1999.

Prince George LRMP: Final plan approved January 1999. Current focus is on completion of an implementation plan and boundaries of protected areas.

Cariboo-Chilcotin Land Use Plan: Five sub-regional plans are underway as part of the refinement and implementation of the regional plan.

Kamloops LRMP: The Plan, approved in 1995, is being implemented. Current efforts focus on development of a monitoring report to assist in evaluating project implementation, compliance activities and success in meeting goals and desired outcomes of the LRMP.

Lillooet LRMP/Okanagan-Shuswap LRMP: Draft plans have been developed with public consultation, and social, economic and environmental impact analyses expected by summer 1999 and submission to government by fall 1999.

Landscape Planning Guide was released (March 1999) and requires the establishment of objectives for old growth management and wildlife tree retention at the landscape level, within the next three years.

ACTION The Ministry of Environment, Lands and Parks, in partnership with other provincial ministries, federal agencies, local governments and other stakeholders, will lead the implementation of the Fish Protection Act (FPA) and complete initial tasks by 2003.

Task	Timeline	Status
• Develop new water allocation rules on general and sensitive streams.	1999	On schedule
• Identify and designate sensitive streams.	2003	On schedule
• Develop fish recovery plans for designate sensitive streams.	2003	On schedule
• Identify candidate watersheds for the development of fish recovery plans and integrated Watershed Management Plans under the Fish Protection Act.	2003	On schedule
• Integrate streamside directives into regional growth strategies and Official Community Plans.	2003	On schedule
• Identify pilot projects for implementation of streamside directives, and work with participating local governments or communities to develop effectiveness measures.	2003	On schedule

Update

Ministry staff carried out stakeholder consultations and produced a summary report on the FPA consultations. In 1998/99 implementation of the FPA focused on the Streamside Protection Policy Directives. In the coming year the focus will be expanded and implementation and consultation activities will take place in support of; designation of sensitive streams, recovery plans for sensitive streams and proposed new water allocation rules. Work on harmonization of the various elements of the FPA efforts with Fisheries and Oceans Canada will continue. Work will also continue on a First Nations Involvement Plan, including an invitation to the Aboriginal Fisheries Commission to participate in the FPA Management Committee and the preparation of a "First Nations Issues Scan".

ACTION Health Canada and Environment Canada will bring community animation (see sidebar) to Fraser Basin communities, including Squamish in the immediate future, by the year 2000.

Task	Timeline	Status
Develop community-based action plans addressing sustainability and community health.	2000/2001	On schedule

Update

The *Communities That Care* process was initiated in Squamish to assist community exploration of sustainability issues and the development of a Strategic Community Plan. Other community animation projects in the Lower Fraser include those involving the Katzie First Nations, Abbotsford-Sumas Aquifer Stakeholder Group, Fraser Valley Watersheds Coalition, Vancouver Natural Heritage Society and the Environmental Youth Alliance.

ACTION The Ministry of Environment, Lands and Parks in consultation with other provincial ministries and Crown corporations, federal agencies, local governments, First Nations and other stakeholders will oversee the development of Water Use Plans (WUPS) for hydroelectric facilities in the Fraser Basin by 2002.

Task	Timeline	Status
Water Use Plans will be developed at hydroelectric facilities throughout the province including those in the Fraser Basin. The Ministry will:		
• Develop and release Water Use Planning Guidelines.	1998	Complete
• Review the Water Use Plan for the Alouette River to ensure consistency with the Guidelines before entering the approval stage.	1998	Complete
• Interim order for Bridge/Seton	1999	On schedule
• Initiate Coquitlam/Buntzen, Cheakamus, Wahleach, Shuswap and Bridge/Seton WUP processes	1999	On schedule
• Stave/Ruskin draft WUP	2000	On schedule
• Coquitlam, Cheakamus, Wahleach, Shuswap and Bridge/Seton draft WUPs	2001	On schedule
• Final approval of Fraser Basin WUPs	2002	On schedule

Update

In 1998/99 WUP Guidelines were finalized/distributed and the WUP process on Stave/Ruskin was initiated. MELP issued interim orders on the Coquitlam, Cheakamus and Stave Rivers to provide more favourable conditions for fish and fish habitat until these WUP processes are complete. The draft WUP for the Alouette has been received and will be reviewed for approval with other Basin WUPs. In the coming year discussions will continue with the BC Aboriginal Fisheries Commission on First Nations participation in the management structure of WUPs

ACTION The Ministry of Environment, Lands and Parks, in partnership with the Ministry of Agriculture and Food and the BC Agriculture Council, will work to find solutions which serve the interests of agriculture and the environment by 1999.

Task	Timeline	Status
• Develop and implement a Memorandum of Understanding to resolve environmental issues associated with farming practices and promote sustainable agriculture in BC.	1998	Complete
• Report to the Minister of Environment, Lands and Parks and the Minister of Agriculture and Food on progress towards resolving environmental issues associated with the agricultural sector.	1998	Complete
• Develop and implement guidelines on ditch maintenance to balance farmers needs for irrigation and drainage with the need to maintain fish habitat.	1999	On schedule
• Evaluate the success of the Code of Agricultural Practice for Waste Management by monitoring water quality in Clayburn Creek, near Abbotsford.	1999	On schedule

Update

Accomplishments achieved include: the development of a discussion paper on an Agricultural Ditch Maintenance Policy for BC, a draft framework for riparian management in agricultural areas, and a discussion paper on resolving conflicts between wildlife and agriculture. Work is also underway to develop recommendations on managing non-agricultural wastes on agricultural land, nutrient management on agricultural land and the economic impacts of environmental regulation on agriculture. The focus in 1999 will be moving forward on the projects identified above.

Community animation is a process that focuses on assisting individuals and communities to increase their capacity to identify and address issues relating to human health and the environment that may be affecting them.

GOAL

**INCLUSIVE
DECISION MAKING
TO INCORPORATE
INPUT FROM A WIDE
VARIETY OF GROUPS
AND INDIVIDUALS.**

GOAL
OUTDOOR RECREATION OPPORTUNITIES TO ENHANCE SOCIAL AND ECONOMIC WELL-BEING, CONNECT US WITH NATURAL SYSTEMS AND MINIMIZE OUR IMPACTS ON THE ENVIRONMENT.

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ACTION Fisheries and Oceans Canada will cooperatively develop a wild salmon policy including full First Nations, community and stakeholder consultation by 2000.

Task	Timeline	Status
• Consult with communities and other interests. Consultation will focus on defining the key elements of a wild salmon policy and examining the capacity and capability of all interests, including Fisheries and Oceans Canada, for building and implementing the policy.	1999	On schedule
• Finalize Wild Salmon policy	2000	On schedule
• Initiate implementation of policy.	2001	On schedule

Update

The development of a wild salmon policy will establish a long-term ecosystem based approach towards managing wild salmon. It is anticipated that the draft policy document will be released in the spring/summer of 1999 with subsequent opportunities for dialogue between a broad range of interests.

NEW ACTION

Oceans Blue Foundation will undertake the development of planning process for sustainable tourism in the Georgia Basin/Puget Sound region.

Background

Growth in tourism in the Georgia Basin/Puget Sound region has contributed to the growth and diversification of the region's economy in recent years. Sustaining - and enhancing - tourism's economic contribution requires that tourism is managed in a way that is environmentally responsible so that visitors may continue to enjoy a quality tourism experience.

Oceans Blue Foundation (La Fondation Oceans Bleus) is an environmental charitable organization working to encourage environmentally responsible tourism practices and address the implications of associated resource use conflicts. Beginning in the fall of 1999, Oceans Blue Foundation will initiate the Blue Tourism Initiative which will focus on (1) development and implementation of environmental standards and guidelines for the tourism industry and (2) development of a strategic role for tourism in planning processes to enable the sector to participate in decision making affecting tourism and the environment.

Task	Timeline	Status
• Initiate the Blue Tourism Initiative planning process	Sept. 1999*	_____
• Complete Blue Tourism Initiative planning process	Aug. 2002	_____
• Implementation and monitoring of Blue Tourism Plan	Aug. 2002 - ongoing	_____

NEW ACTION

The Fraser Basin Council will work with government and non-government interests to facilitate the development of a new management structure and funding arrangement for the management of debris in the Lower Fraser River and Georgia Strait by 1999.

Background

While large woody debris contributes to healthy aquatic ecosystems excessive amounts of wood waste can damage marsh and shoreline areas. Floating debris can pose a hazard to navigation and recreation, and impact the safety and maintenance of infrastructure such as docks, bridges, and dykes. The Agassiz Debris Trap facility removes 70 to 90,000 m³ of debris from the Fraser River annually. Organizations that have traditionally funded the Trap are looking for opportunities to involve a broader range of beneficiaries as funders and seek opportunities to recover more of the costs of trap operations. Below the Trap an additional 70,000 m³ of debris is generated. As such, there is a need for a cooperative debris management initiative in the Lower Fraser River and Georgia Strait.

Task	Timeline	Status
• Establish the Debris Management Partners Group (DPMG) for the Lower Fraser River and Georgia Strait	1999	_____
• Secure medium term funding for the Agassiz Debris Trap.	1999	_____
• Complete an inventory of debris sources and management practices	2000	_____
• Prepare a long term business plan including cost recovery options.	2000	_____

ACTION The City of Quesnel will consider adopting the principles of the Charter for

Region: Fraser Valley

ACTION The Fraser Basin Council will facilitate the development of an integrated nutrient management action plan in the Fraser Valley by 1999.

<u>Task</u>	<u>Timeline</u>	<u>Status</u>
• Distribution of nutrient management study reports.	1998	Complete
• Plan development process.	1999	On schedule
• Completion of plan.	2000	On schedule

Update

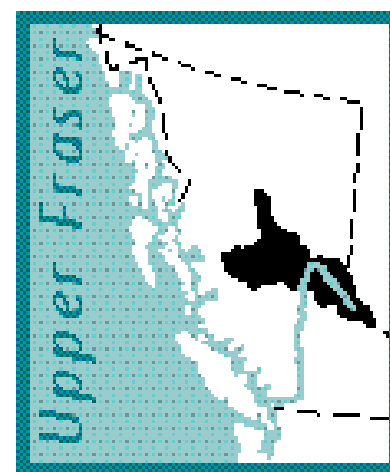
In 1998 agricultural interests initiated a process to develop a sectoral perspective on the need for improved nutrient management (i.e., agricultural wastes and fertilizer). In the coming year, agricultural interests, working with government agencies and the Fraser Basin Council will develop an integrated nutrient management action plan and initiate a multi-stakeholder process to seek input from all interests on how non-point sources of pollution associated with agriculture can be better managed.

ACTION The Fraser Valley Regional District (FVRD) will undertake the implementation of its Air Quality Management Plan to develop a regional air quality management program by 2000 to improve air quality or prevent further deterioration without limiting growth.

<u>Task</u>	<u>Timeline</u>	<u>Status</u>
Implementation Plan.	1998	Complete
Application for Letters Patent.	1999	On schedule

Update

The FVRD is currently working to obtain authority for regulation and enforcement of air and pollution standards currently held by the provincial government. The FVRD is also working cooperatively with the GVRD on upgrading and coordinating emissions inventories and working towards joint administration of a common air quality management plan for the region.



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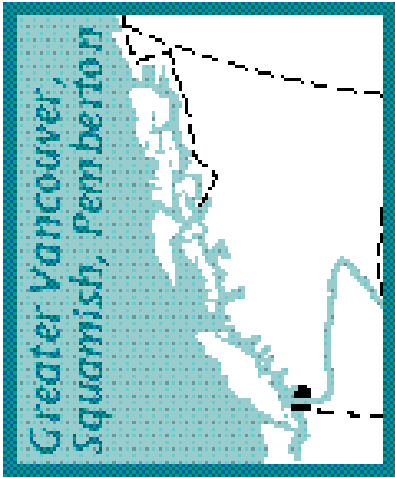
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GOAL

**AIR QUALITY TO
ALLOW FOR VIBRANT
AND HEALTHY
ECOSYSTEMS.**



The LRSP is designed to address the challenges associated with the anticipated growth in Greater Vancouver's population.

The LRSP has four main strategies: Protecting the Green Zone, Building Complete Communities, Achieving a Compact Metropolitan Region and Increasing Transportation Choices.

GOAL

TRANSPORTATION TO ENABLE THE EFFICIENT MOVEMENT OF PEOPLE AND GOODS WITHOUT CONTRIBUTING TO POLLUTION.

ACTION The Vancouver International Airport Authority will test three different approaches to erosion control protecting foreshore habitat on the Fraser River adjacent to the Vancouver International Airport by 2003.

Task	Timeline	Status
• Begin development of physical works and vegetative planting.	1998	Complete
• Assessment and annual reporting on the approaches undertaken in this project and their relative success in terms of flood protection and habitat restoration of the foreshore.	1998-2003	On schedule

Update

The Vancouver International Airport has undertaken an experimental program on the bank of the North Arm of the Fraser River for erosion protection and recreated habitat. Monitoring activities undertaken to date have shown two of the three treatments used to be successful. These two approaches are; the use of willow wattles in soil and geotextile grid filled with dirt and planted grasses. Monitoring of these approaches will continue to assess longer term effectiveness.

ACTION The Greater Vancouver Regional District (GVRD) will implement its Livable Region Strategic Plan (LRSP) (see sidebar), the regional growth strategy for the Greater Vancouver Regional District by 2000.

Regional Context Statements:

Task	Timeline	Status
• Board acceptance of all 20 proposed Regional Context Statements.	1999	Complete
• Summary analysis of Regional Context Statements implications for LRSP and identification of key issues.	1999	Complete

Update

18 of the GVRD's 20 member municipalities have completed regional context statements which illustrate how municipal official community plans (OCPs) will support the LRSP. The remaining context statements are expected by July 1999. In the coming year, a process will be initiated to develop implementation agreements to better coordinate local government planning and school district infrastructure investments in support of the goals of the LRSP.

Transportation Governance and Finance:

Task	Timeline	Status
• Provincial legislation to establish GVTA	1998	Complete
• Prepare transition strategy for GVTA.	1998	Complete
• Establish GVTA.	1999	Complete
• Prepare corporate plan (operating and capital)	1999	On schedule
• Begin construction of Broadway-Coquitlam LRT	1999	On schedule

Update

The Greater Vancouver Transportation Authority (GVTA) was established in 1999 and is currently working on the development of a corporate plan (i.e., operating and capital). The plan will identify short to medium term priorities and funding mechanisms and is expected to be completed by 2000.

Monitoring Program for LRSP:

Task	Timeline	Status
• Finalize monitoring program.	(1999)	Revised schedule
• Second annual monitoring report.	1998	Complete

Update

The second annual monitoring report for the LRSP was completed in 1998. Monitoring allows assessment of progress towards the goals of the LRSP and implementation of specific actions. The monitoring program for the LRSP will be finalized in 1999.

ACTION The Greater Vancouver Regional District (GVRD) will remove most of the pollutant loadings into the Fraser River from its Annacis and Lulu sewage treatment plants by 1999.

Task	Timeline	Status
• Both plants will be fully operational for secondary treatment.	1998	Complete

Update

Secondary treatment upgrades at Annacis Island and Lulu Island Wastewater Treatment Plants became fully operational in Oct. 1998 and Feb. 1999 respectively. Secondary treatment of wastewater provides for reduced contaminant loadings in wastewater discharges compared to primary treatment. Measures of contaminants such as biological oxygen demand (BOD) and total suspended

solids (TSS) in wastewater discharges have been reduced by up to 90% relative to historic levels.
ACTION The Greater Vancouver Regional District in partnership with municipal, federal and provincial government agencies and non-government stakeholders will develop a Watershed Management Plan for the Brunette Basin by 1999.

Task	Timeline	Status
• Initiation of the Still Creek-Brunette Basin Work Group.	1996	Complete
• Still Creek-Brunette Basin Issues and Proposed Actions Draft Report completed.	1996	Complete
• Brunette Basin Task Group established to build on the Issues and Proposed Actions Draft Report.	1997	Complete
• Development of Watershed Management Plan.	1998	Complete
• Expected completion of Watershed Management Plan.	1999	On schedule

Update

In 1998 the Brunette Basin Task Group undertook a number of projects in support of the watershed management plan and established a framework for urban watershed planning. Projects include: inventory and mapping of streams, stream classification, investigation of habitat rating systems for major reaches and development of an integrated stormwater management strategy for the Stoney Creek subwatershed. Activities undertaken in support of the planning framework include: public workshops and seminars on watershed planning in the Brunette and identifying options for watershed improvement projects and policy and bylaw options.

ACTION The Fraser River Estuary Management Program will facilitate activities to implement *A Living Working River, the Estuary Management Plan (EMP) for the Fraser River*.

Task	Timeline	Status
• Identify priority actions to be undertaken in the next phase of implementation of the EMP.	1998	Complete
• Begin implementation of priority actions	1998	Complete
• Report on annual progress and identify additional priority actions as they emerge.	1999	Complete

Update

All tasks identified in 1998/99 were completed on schedule. In 1998, a stakeholder workshop identified new priorities to be addressed in 1999/2000. New tasks to be undertaken include:

Task	Timeline	Status
• Develop a monitoring program to assess the effectiveness of the EMP in reaching set goals and objectives.	2000	—
• Update the FREMP habitat inventory and habitat classification systems.	2000	—
• Consult with stakeholders on new guidelines for dredging that take into account the sediment budget of the river and fish habitat values.	2000	—
• Develop tools to support water-dependent industry and integrate water and land based transportation.	2000	—
• Reduce the generation of log debris in the estuary through improved source control, prevention and containment.	2000	—

NEW ACTION

The Greater Vancouver Regional District has targeted to complete Stage 2 of the Liquid Waste Management Planning (LWMP) process by 2000.

Background

Actions taken by local governments in the Greater Vancouver region in recent years have helped to improve the management of some forms of liquid waste. For example, the upgrading of sewage treatment plants to secondary treatment means that the percentage of local residents served by secondary treatment has increased from 1% to 49%. The development and application of a source control bylaw gives more control over sources of liquid waste. Phase 2 of the LWMP process will focus on identifying priorities among remaining liquid waste management issues and options for addressing those issues. Issues that will be considered include: treatment plants, combined sewer overflows, infiltration and inflows management; residuals management, source control, stormwater management and non-point source contaminants.

Task	Timeline	Status
• Development of options	1999	—
• Public review and input	1999	—
• Municipal and Board review and approval	1999	—

GOAL

DIVERSE AND ABUNDANT FISH STOCKS, SUPPORTED BY HEALTHY HABITAT TO PROVIDE FOR THE NEEDS OF ALL USERS.

NEW ACTION

The Fraser River Harbour Commission will undertake studies to assess the impact of maintenance dredging on sturgeon habitat and develop "sturgeon friendly" dredging guidelines by 2002.

Background

The Lower Fraser is an important commercial transportation route and home to white sturgeon, a species listed as threatened by the BC Conservation Data Centre. The Lower Fraser is also an important commercial transportation route. Ensuring the safety of the river as a commercial transportation route requires some maintenance dredging to take place which may pose a threat to sturgeon habitat. The Fraser River Harbour Commission, with direction from the Ministry of Environment, Lands and Parks, will undertake studies to learn more about the impact of maintenance dredging on sturgeon habitat towards the development of "sturgeon-friendly" maintenance dredging guidelines.

Task	Timeline	Status
• Develop Terms of Reference for studies to assess impact of maintenance dredging on sturgeon habitat.	1999	—
• Initiate assessment studies.	2000	—
• Initiate analysis of interim study results.	2001	—
• Initiate development of interim guidelines for maintenance dredging based on information gained in studies.	2001	—
• Finalize maintenance dredging guidelines based upon completion and analysis of study results.	2002	—

NEW ACTION

The Tsleil-Waututh First Nation will facilitate the development of a coordinated, cooperative and cost effective restoration plan for the Indian River watershed by 2002.

Background

The Indian River watershed is in the heart of the Tsleil-Waututh traditional territory and in close proximity to BC's largest urban population. In the spring of 1999, a workshop hosted by the Tsleil-Waututh and involving a diverse array of government and non-government interests, confirmed support for a collaborative process focusing on stewardship and restoration of the Indian River watershed. Some unique aspects of the process include: a focus on articulating a contemporary model of First Nations stewardship, First Nations sharing the role of catalyst/facilitator and addressing issues related to sustainability and aboriginal rights and title in the context of watershed renewal and management.

Task	Timeline	Status
• Establish an Ad Hoc Committee to oversee the development of a restoration plan for the Indian River watershed.	1999	—
• Develop a draft restoration plan for the Indian River watershed for consideration by all partners.	1999	—
• Develop vision, principles and objectives to support an Indian River Stewardship Council that would oversee implementation of the watershed restoration plan.	2000	—
• Develop a network for information sharing and decision-making between all interests on land and natural resource management activities in the watershed.	2000	—

GOAL

LOCAL DECISION MAKING TO ALLOW RESIDENTS TO BE INVOLVED IN MAKING DECISIONS THAT AFFECT THEM DIRECTLY.

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District.

Wendy Turner
Fraser River Coalition, Vancouver

Region: Upper Fraser

ACTION Working in partnership with all interests, the Fraser Basin Council will facilitate the preparation of a water management plan for the Nechako River by 2003.

Task	Timeline	Status
• Assist in establishing the Nechako Watershed Council.	1998	Complete
• Develop recommendations to the Nechako Environmental Enhancement Fund Management Committee.	1999	On schedule
• Develop and implement a water management planning process.	1999	On schedule
• Facilitate the preparation of a water management plan.	2000	On schedule
• Communicate and involve the general public.	1998 - 2000	On schedule
• Work with government agencies and organizations to implement a water management plan and other recommendations.	2001-2003	On schedule

Update

Since 1996, the Fraser Basin Council has been working to bring together a range of interests to work towards resolving outstanding water management issues in the Nechako. The Fraser Basin Council assisted in the formation of the Nechako Watershed Council (NWC) which was established in June, 1998. Recently, the Council was engaged by the Nechako Environmental Enhancement Fund (NEEF) Management Committee to assist with the public consultation process to develop opinions for the downstream enhancement of the Nechako Watershed area.

ACTION The Regional District of Fraser-Fort George will investigate the need for and implement acceptable sewage disposal methods in the Robson Valley by 2000.

Task	Timeline	Status
• Conduct an initial analysis to determine the extent of the problem.	1998	On schedule
• Based on the above results, investigate options for sewage disposal for both on-site and municipal systems, taking into account regulatory requirements and rural needs.	1998	On schedule
• Analyze the options for costs and technical feasibility.	1999	On schedule
• Select and implement the best options	2000	On schedule

Update

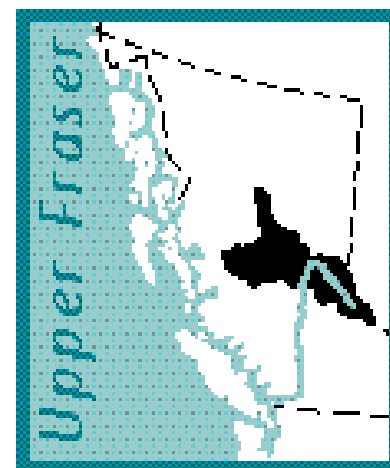
The Regional District's 1998 study revealed that there are approximately 130,000 gallons of liquid wastes for disposal each year. The Village of McBride's system is able to accept some of the waste, but only on a temporary basis. Work is now underway to investigate and assess options for managing municipal sewage waste in the Robson Valley.

ACTION The Fraser Fort George Regional Museum will develop social and environmental programming relating to the confluence of the Fraser and Nechako rivers and adopt the Fraser River as a unifying theme in program planning by 2002.

Task	Timeline	Status
• Develop, with the Fraser River Discovery Centre, exhibits on sustainability, physical environment and history.	2002	On schedule
• Develop an interpretive facility and programming focused on the confluence of the Fraser and Nechako Rivers.	2002	On schedule
• Develop exhibits and programs for touring visitors and educational modules.	2002	On schedule
• Develop a rivers programs that links contemporary and historic aspects of the Forest, Inhabitable Land and Mountain exhibit themes and includes a First Nations perspective.	2002	On schedule

Update

Building design and exhibit design activities are underway, and are expected to be completed by the Fall of 1999. The final stage of fund raising is underway and construction is anticipated to begin in the Spring of 2000. Towards furthering its partnership with the museum, the McGregor Model Forest Association will locate its offices in the expanded museum facility.



GOAL

SHARING IDEAS
TO HELP OTHERS
CONTRIBUTE TO
SUSTAINABILITY.

GOAL

COMMUNITY

WELL-BEING TO
ENABLE RESIDENTS
TO MEET THEIR
ECONOMIC, SOCIAL
& ENVIRONMENTAL
NEEDS.

Upper Fraser Regional Directors

Bob Headrick

Chair, Regional District of
Fraser-Fort George, Prince George

Kazuko Katatsu

President & CEO, Pacific Western
Brewing Cooperative, Prince George

Frank Read

Vice Chair, Regional District of
Bulkley Nechako, Burns Lake

Tom Steadman

Scotia McLeod, Prince George

Leonard Thomas

Vice Tribal Chief,

Carrier Sekani Tribal Council

ACTION The Prince George Region Development Corporation will coordinate a process to identify areas suitable for future development of heavy industry in the Prince George area. The areas will be considered for community plan designation by the City of Prince George and/or the Regional District of Fraser-Fort George by 2000.

Task	Timeline	Status
• Conduct an inventory of presently zoned industrial land and potential lands for industrial use in the City of Prince George and the Regional District of Fraser-Fort George.	1998	Complete
• Examine various location factors and establish parameters for appropriate sites.	1998	Complete
• Examine the market issues for industrial land, external and local.	1998	Complete
• Identify potential sites for future industrial development.	1999	Complete
• Examine the feasibility of developing the potential sites.	1999	Complete
• Explore issues around costs and revenue sharing, and possible administrative arrangements.	1999	On schedule
• Select the best site(s) for designation in Official Community Plans and zoning bylaws.	2000	On schedule

Update

The Prince George Regional Development Corporations study in 1998 looked at ten potential sites in and around Prince George. These sites were examined for factors such as economic viability, infrastructure, potential impacts on local air and water quality, and proximity to settled areas.

NEW ACTION

Canadian Forest Products Ltd. (Canfor) will apply for and obtain certification for forest management from the International Standards Organization (ISO), the Forest Stewardship Council (FSC) and the Canadian Standards Association (CSA) by 2000.

Background

Like many forest companies in BC, Canfor receives questions from its major customers and the public about Canfor's performance as a steward of public forests. Independent third party certification is a means to measure how well private companies are managing public resources. Using this method in BC requires clarification of how to apply certification systems developed for land based tenures to volume based tenures, the latter of which make up the majority of forest operations in BC.

Task	Timeline	Status
• Apply for and obtain ISO 14001 Environmental Management System certification for all its woodlands operations throughout BC.	1999	—
• Apply for and obtain FSC and CSA certification for forest management for its two Tree Farm Licenses (land based tenures)	2000	—
• Work with the Ministry of Forests and certifying agencies to determine how to apply certification to Canfor's operations on volume based tenures.	2000	—
• Apply for and obtain FSC and CSA certification for forest management for these remaining operating areas.	2000	—

Region: Thompson

ACTION The Fraser Basin Council will examine the issue of deteriorating water quality in Shuswap Lake and assess the degree of community support to resolve the issue by 1999. If necessary, the Council will facilitate the development of a community watershed snapshot and a multi-stakeholder process to resolve the issue.

Task	Timeline	Status
• Identify sources of pollution (point and non-point sources).	2000	On schedule
• Define measures to eliminate or manage the discharge of these pollutants.	2001	On schedule
• Identify roles and responsibilities to implement these measures.	2002	On schedule
• Publish an action plan with an implementation plan including associated budgets.	2003	On schedule
• Initiate implementation of plan.	2003	On schedule

Update

Collection and collation of water quality data has been completed and mapping of permitted septic tank outlets and soil capability will be completed by the end of 1999. This information will help to determine the relationship between onshore development and shoreline water quality and assist in assessing support for a process to address regional water quality concerns.

ACTION The Nicola Watershed Stewardship and Fisheries Authority will develop habitat restoration plans for the Nicola and Coldwater Rivers by 2000.

Task	Timeline	Status
• Identification of areas for habitat restoration.	1998	Complete
• Development of habitat restoration plans.	2000	On schedule

Update

Work to define the location and nature of habitat restoration needs for the Nicola and Coldwater rivers is complete and work has begun on developing restoration plans. Initial work suggests that priority habitat concerns include loss of riparian vegetation coupled with low water flows which contributes to high water temperatures unsuitable for fish. Initial work also suggests that the majority of habitat work required is in valley bottoms. Habitat restoration activities in valley bottoms will focus on stewardship activities with landowners and include an emphasis on improving the efficiency of agricultural water use.

ACTION The Columbia Shuswap Regional District (CSRD) will undertake the development of a Liquid Waste Management Plan by 2000 for the South Shuswap focusing on septic tank and field maintenance issues.

Task	Timeline	Status
• Development of Liquid Waste Management Plan.	2000	On schedule

Update

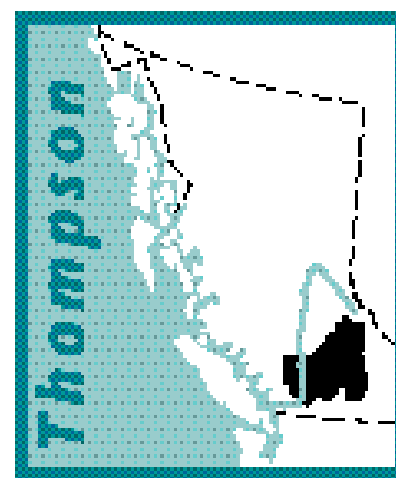
The Regional District has developed a draft Liquid Waste Management Plan (LWMP) for the south shore of Shuswap Lake (i.e., Blind Bay/Sorrento) and is currently undertaking public consultation before finalization and implementation of the Plan. The Plan is intended to help address water quality issues related to population increase.

ACTION The Thompson Nicola Regional District will develop and lead the implementation of its Regional Growth Strategy by 2000.

Task	Timeline	Status
• Analysis of Growth Potentials.	1997	Complete
• Consultation on growth scenarios and issues.	1998	Complete
• Select Growth Strategy scenarios and strategies.	1998	Complete
• Consultation on Draft Regional Growth Strategy.	1998	Complete
• Approval of draft plan by Board prior to public consultation.	1999	On schedule
• Public input/consultation	1999	On schedule
• Begin implementation of plan.	2000	On schedule

Update

In 1999 a draft growth strategy was developed in consultation with government agencies and First Nations. The selection of growth strategy scenarios was initiated and will continue through the public consultation phase. Over the next year a process will be initiated to obtain input on the draft growth strategy prior to finalization and implementation.



GOAL

GROWTH MANAGEMENT TO PROTECT CLEAN AIR AND WATER, PROVIDE FOR AFFORDABLE HOUSING AND CONSERVE FARMLAND, WILDERNESS AND UNIQUE NATURAL AREAS.

GOAL

COMMUNITY STEWARDSHIP TO ENABLE RESIDENTS TO TAKE ACTION TO PROTECT, RESTORE AND ENHANCE THE LOCAL NATURAL ENVIRONMENT.

Thompson Regional Directors

Deborah Abbott

*Executive Director, Nkla'pamux
Nation Tribal Council, Lytton*

Dorothy Argent

*Past Chair, Salmon River Watershed
Round Table, Salmon Arm*

Roy Decker

*Director, Columbia Shuswap Regional
District, Sorrento*

Bob Ellis

*Director, Thompson-Nicola Regional
District, Savona*

Arthur Manuel

*Tribal Chairman, Shuswap Nation
Tribal Council, Kamloops*

George Saddleman

*Chair, Nicola Tribal Association,
Merritt*

Robert Smillie M.D.

Health Consultant, Kamloops

Morgan Wells

*Band Councillor, Mount Currie Band,
Mount Currie*

NEW ACTION

The City of Kamloops will install residential water meters by 2002.

Background

In 1991, each resident of the Basin used an average of 438 litres of water per day - one of the highest rates of use in the world. In drier parts of the Basin such as Kamloops, high rates of water use pose a challenge in terms of meeting demand at certain times of the year. In addition, high rates of water use translate into increased costs for treating and moving water both before and after use (i.e., waste water). Water metering and pricing is one mechanism that can be used to help increase water conservation and reduce associated costs by reward residents that practice conservation. Currently, the water consumed by approximately 20,000 private residences is not metered.

Task

- Begin installation of residential water meters
- Complete installation of residential water meters

Timeline

2000

2002

Status

—

—

Region: Cariboo-Chilcotin

Sustainability into its revised Official Community Plan (OCP) by the year 1998 and look for opportunities to develop supporting planning materials by the year 2000.

Task	Timeline	Status
• Adopt Charter as a key component of the City's planning and decision-making process.	1998	On schedule

Update

Work will begin on reviewing the City's Official Community Plan in the Spring of 1999. Looking for opportunities for incorporating sustainability and the Charter principles in the OCP will be part of community discussions on the review and revision of the OCP.

ACTION The City of Quesnel will develop a Bicycle Network within the city by 2003.

Task	Timeline	Status
• Planning Committee for the Official Community Plan to review network.	1998	Complete
• Complete North Quesnel to Brownmiller Road path (1.9 km)		
• Complete two routes (2.2+ km).	(2001)	Revised schedule
• Complete three routes (4.4 km).	(2004)	Revised schedule
• Complete last route (2.7+ km).	(2005)	Revised schedule

Update

The first set of bicycle paths is under development. The timeline for completing the remainder of the network has been influenced by the extension of the City boundaries and is expected to be delayed by two years. When complete, proposed routes will link key business, traffic corridors and recreation areas.

ACTION The District of 100 Mile House will develop a wetland treatment system that will capture and cleanse storm water runoff entering Bridge Creek by 2003.

Task	Timeline	Status
• Preparation of a workplan for developing a wetland treatment system for storm water runoff entering the Bridge Creek System.	1999/2000	Complete
• Implementation of a workplan for developing a wetland treatment system.	2002/2003	On schedule

Update

A proposal for developing the treatment system has been submitted to the Ministry of Environment, Lands and Parks for review. Pending approval of the workplan, the District will proceed with project implementation. The proposed treatment system uses existing marsh and lagoons to treat storm water and enhance the water quality Bridge Creek.

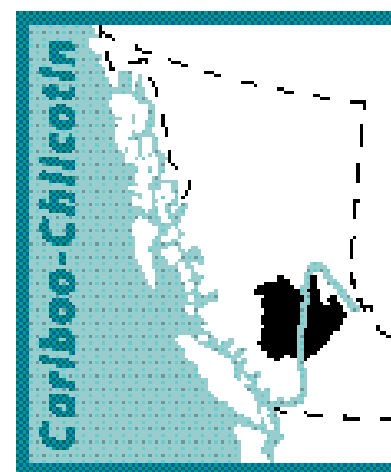
NEW ACTION

The Alex Fraser Research Forest will undertake research and education activities to improve integrated management of interior forest lands for multiple resource benefits by 2003.

Background

The Alex Fraser Research Forest was established in 1987 to provide for research and education on integrated management in interior forests. It was established with support from the local community and governments and is guided by a joint local management industry committee. The forest consists of two geographically separate areas that represent different climactic conditions. Academic institutions, governments, private companies and international groups have been involved in its various research and education initiatives.

Task	Timeline	Status
• Establish six mule deer habitat management demonstration sites.	2000	—
• Initiate research on the impact of various silvicultural practices on plants traditionally used by First Nations.	2000	—
• Establish two new self-guided forest management demonstration trails.	2000	—
• Develop and manage a minimum of ten field demonstration sites that illustrate the impacts of various silvicultural systems in Douglas fir/Lodgepole pine forests.	2001	—
• Demonstrate and provide recommendations on the impact of various harvesting approaches on visual quality.	2003	—



Cariboo-Chilcotin

Regional Directors

Ervin Charleyboy

Chair, Tsilhqot'in National Government, Williams Lake

Ken Day

Manager, UBC/Alex Fraser Research Forest, Williams Lake

Marie Mervyn

Rancher, Alkali Lake Ranch, Alkali Lake

Jon Wolbers

Director, Cariboo Regional District, Williams Lake

GOAL

FOREST LANDS FOR ECONOMIC, RECREATIONAL AND AESTHETIC USE ARE MANAGED TO RESPECT ECOLOGICAL SYSTEMS

We welcome your input!

Sustainability is all about
group effort and mutual support.
The Fraser Basin Council has
Regional Coordinators in each of
the Basin's five regions to help keep
open a free flow of information
about opportunities to improve
the Basin's quality of life.
They're there to listen when
you have an idea or question
of interest to the Council.
They can also help you get
involved in projects related to
sustainability in your area, or in
helping the Council's efforts to
become self-sustaining.
Please contact the Fraser Basin
Council office at:

- Upper Fraser (250) 960-5827
- Cariboo Chilcotin (250) 392-1400
- Thompson (250) 314-9660
- Fraser Valley (604) 826-3074
- Greater Vancouver, Squamish
and Pemberton (604) 605-3452



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NEW ACTION

The Quesnel River Enhancement Society, in Partnership with local universities, will establish an interior fisheries research and education site while enhancing fish production.

Background

The Quesnel River Enhancement Society was established in 1995 to operate and manage the former federal fish hatchery on the Quesnel River near Likely. The site includes a hatchery building, earthen ponds, feeding troughs, office, residences and workshops. The membership of the Society reflects a diverse range of community interests including: First Nations, local forestry companies, recreational fishers and local residents.

Task	Timeline	Status
• Introduce a coho stocking program.	2000	—
• Provide extension information on forestry/fish habitat interface.	2000	—
• Establish annual training opportunities for 30 First Nations.	2000	—
• Establish the site as an education and extension training facility for universities and community interests.	2001	—
• Restore and maintain habitat at Quesnel Forks through tree planting.	2004	—

Summary of Actions

Region - Basin-Wide/Inter-Regional

- **Action Plan for Integrated Flood Hazard Management. (Fraser Basin Council)**
- Georgia Basin Ecosystem initiative (Environment Canada/Health Canada).
- Agricultural symposia (Farm Folk/City Folk).
- Flood/erosion damage mitigation plan for reserve lands (Indian and Northern Affairs Canada).
- Regional Environmental Management System (Transport Canada, Pacific Region).
- Resource Management and Land Use Planning (Ministry of Environment, Lands and Parks - MELP).
- Clean Air Strategy (MELP).
- Fish Protection Act (MELP).
- Community animation (Health Canada/ Environment Canada).
- Water Use Planning (MELP).
- Agriculture and the environment initiative (MELP).
- Wild Salmon Policy (Fisheries and Oceans Canada).
- Blue Tourism Initiative (Oceans Blue Foundation) **NEW ACTION**
- **Debris Management (Fraser Basin Council) NEW ACTION**

Region - Fraser Valley

- **Integrated nutrient management plan for the Fraser Valley (Fraser Basin Council).**
- Fraser Valley Air Quality Management Plan (Fraser Valley Regional District).

Region - Greater Vancouver

- Flood control/habitat rehabilitation at Vancouver International Airport (Vancouver International Airport Authority).
- Watershed Management Plan for the Brunette Basin (GVRD).
- Annacis and Lulu sewage treatment plants (GVRD).
- Implementation of the Livable Region Strategic Plan (GVRD).
- Implementation of the Estuary Management Plan (Fraser River Estuary Management Program).
- Liquid Waste Management (GVRD) **NEW ACTION**
- Indian River Restoration (Tseil Waututh First Nation) **NEW ACTION**
- Sturgeon habitat dredging guidelines (Fraser River Harbour Commission) **NEW ACTION**

Region - Upper Fraser

- **Nechako water management. (Fraser Basin Council).**
- Robson Valley rural residential sewage treatment options (Fraser Ft. George Regional District).
- Fraser Fort George Regional Museum Rivers Programs (Fraser Ft. George Regional Museum).
- Planning process for heavy industry in the Prince George area (Prince George Region Development Corporation).
- Forest Certification (Canadian Forest Products) **NEW ACTION**

Region - Thompson

- **Shuswap Lake water quality. (Fraser Basin Council).**
- Habitat restoration plans for the Nicola and Coldwater Rivers (Nicola Watershed Stewardship and Fisheries Authority).
- South Thompson Liquid Waste Management Plan (Columbia Shuswap Regional District).
- Thompson Nicola Regional Growth Strategy (Thompson Nicola Regional District).
- Water Metering (City of Kamloops) **NEW ACTION**

Region - Cariboo-Chilcotin

- Integration of Charter for Sustainability in Official Community plan (City of Quesnel).
- Development of a Bicycle Network (City of Quesnel).
- Development of a wetland storm water runoff treatment system (100 Mile House).
- Forest research and education (Alex Fraser Research Forest). **NEW ACTION**
- Fisheries Research and enhancement (Quesnel River Hatchery). **NEW ACTION**