APPENDIX C

Part 2 Land and Resource Management Plans and GIS Methodology

1 INTRODUCTION

This appendix outlines the land and resource management plans relevant for the Project. Information is presented on geographical or physical overlap with project components. Information is also included on the Geographic Information Systems (GIS) for the Land and Resource Use assessment including the purpose, methodology, data sources and indicators applied. GIS analysis utilizing government data bases and project spatial representation, was applied to identify the overlap. The appendix also presents the cumulative effects project inclusion database for the Peace River Regional District which is the largest regional assessment area for the land and resource use valued components (and the maximum area for consideration within the Land and Resource Use Cumulative Effects Assessment). The purpose of this appendix is to support Volume 3 Economic and Land and Resource Use Effects Assessment of the Site C Clean Energy Project EIS.

2 LAND AND RESOURCE MANAGEMENT PLANS

The provincial Crown land in the Project activity zone is subject to the strategies and objectives of land and resource management plans (LRMPs). The Project activity zone encompasses portions of both the Dawson Creek and Fort St. John land and resource management plans (LRMPs). Together the two plans cover 7.5 million hectares. The recommendations of the Fort St. John planning table were accepted in 1997, and those of the Dawson Creek table in 1999. The plans inform statutory decision makers in the exercise of their responsibilities.

The southern bank of the Peace River is roughly the boundary between the two plans, with the Dawson Creek LRMP area to the south and the Fort St. John LRMP area to the north.

Both LRMPs define the following five Resource Management Zones or land use zones:

- Agriculture and Settlement Zones – this includes Crown land inside an Official Community Plan area, and/or land managed by local government under the Local Government Act. It may be currently used for, or have potential future use for agriculture and range development. The category also includes agriculturally compatible activities such as mineral exploration, oil and gas development, transportation, utility and communication corridors, recreation development and forest management. This Resource Management Zone is distinct from the province's Agriculture Land Reserve, which takes precedence over the LRMP management zones.
- Protected Zones- applies to lands with high priority for natural, cultural, heritage and or recreation resource values. Land uses deemed compatible with these values may be permitted. These include non-commercial hunting and fishing, guide outfitting, trapping, grazing in support of guide outfitting, camping and hiking. Generally, extractive resource development is not permitted, which includes logging, mining, hydroelectric development, oil and gas exploration and development, although exceptions may be made in specific circumstances.

- Special Management Zones – applies to land with high priority for specific major resource values. Resource extraction is permitted, but must consider and address the priority values. The intent is to identify the risk to the priority values and manage potential conflicts. The priority values in the special management zones that fall within the Project activity zone are wildlife, recreation and river corridor.
- Enhanced Development – this applies to land for intensive resource development, with due consideration for the management of multiple uses. A high priority is combined resource management emphasis (e.g., high intensity forest management and range management).
- General Management Zone – applies to land where a wide range of resource uses are permitted. The objective is to integrate resource development with environmental and conservation values with limited land use conflict. Investment in resource development and enhancement is encouraged.

The distribution of the Project activity zone among the Resource Management Zones of the two land use plans is summarized in Table 1. Both LRMPs proposed a protected area that extends into the Peace River Boudreau Lake proposed protected area. The issuance of tenures for the use of Crown land or resources is informed by the resource management objectives of the Resource Management Zone within which the activity is proposed.

Two sub-regional planning initiatives have been undertaken since acceptance of the LRMPs. The Dunlevy Creek Management Plan - accepted by government in 2002 – provides specific management direction for oil and natural gas development and tenure disposition in the Dunlevy Creek Special Management Zone, which is located west of Hudson's Hope along the north shore of Williston Lake. The second planning initiative - which took place from 2004 to 2006 to address lands in the Project activity zone south of the Peace River - was the Peace-Moberly Tract Sustainable Resource Management Plan (SRMP). The purpose of this initiative – which involved the provincial government and the West Moberly and Saulteau First Nations – was to address land use issues of mutual concern to the parties. The SRMP recognized the recommendation of the Dawson Creek LRMP (i.e., a higher level plan) and specifically the proposed designation of the Peace River Boudreau Lake proposed protected area (BC Ministry of Natural Resource Operations 2006). The SRMP remains in draft form as it has not been formally accepted by the parties.

Table 1 Resource management zones in the Project activity zone and reservoir impact lines, (ha)

Resource Management Zone (RMZ)	5-Year Beach Line[a]	Site C Dam Site Area[b]	Transmission Line[c]	Construction Access Roads[d]	Quarried & Excavated Materials[e]	5-Year Beach Line to Outermost Impact Line[f]	Total RMZ in Plan Area	% Project overlap with RMZ
Dawson Creek LRMP[1]								
Enhanced - South Peace	765.7	105.8	608.0	35.3	178.1	127.7	152,379.5	1.2%
General - Multi Value Foothills	0.0	0.0	0.0	0.6	148.2	0.0	17,702.1	0.8%
General - Multi Value Plateau	0.0	206.7	384.7	13.6	0.0	609.6	103,162.4	1.2%
Proposed Protected Area	1,999.8	46.8	0.0	21.6	0.0	3,464.9	22,104.2	25.0%

Resource Management Zone (RMZ)	5-Year Beach Line[a]	Site C Dam Site Area[b]	Transmission Line[c]	Construction Access Roads[d]	Quarried & Excavated Materials[e]	5-Year Beach Line to Outermost Impact Line [f]	Total RMZ in Plan Area	% Project overlap with RMZ
Settlement	139.2	274.5	275.6	105.4	21.2	134.7	252,614.2	0.4%
Special - River Corridor	330.6	240.2	92.2	0.0	79.6	45.0	52,027.7	1.5%
Ft St John LRMP[2]								
Agriculture/Settlement	12.4	76.1	0.0	11.9	118.3	738.5	237,855.2	0.4%
General Management	0.0	0.0	0.0	0.0	0.0	46.9	50,182.1	0.1%
Proposed Protected Area	782.2	64.9	0.0	0.0	0.0	0.0	2,097.2	40.4%
Special Management	5,510.3	638.2	0.0	224.7	85.2	3,498.6	82,358.4	12.1%

NOTE:

[a] 5-year Beach Line is the predicted extent of shoreline retreat at the Maximum Normal Reservoir Level five years after impoundment of the proposed reservoir as defined in Volume 2 Appendix B Geology, Terrain Stability, and Soil Reports, Part 2 Preliminary Reservoir Impact Lines.

[b] Site C dam site and substation construction areas and restricted access zones as described in Section 4 Project Description.

[c] Transmission line corridor and onetime clearing areas as described in Section 4 Project Description.

[d] Permanent and temporary roads, Highway 29 realignment as described in Section 4 Project Description.

[e] Off-site construction material sources as described in Section 4 Project Description.

[f] 5-Year Beach Line to outermost impact line including the stability impact line, landslide generated wave impact or flood impact line as defined in Volume 2 Appendix B Geology, Terrain Stability, and Soil Reports, Part 2 Preliminary Reservoir Impact Lines.

[1 2] only RMZ's in Dawson Creek and Fort St. John LRMPs that overlap the Project activity zone are reported

SOURCE:

Hillcrest geographics (2012)

3 GEOGRAPHIC INFORMATION SYSTEM ANALYSIS

3.1 Purpose

Geographical Information System (GIS) analysis is able to integrate and relate any data with a spatial component either numerically or through mapping. GIS analysis can assist with determining the spatial extent of change on the land base and how change could interact with other interests.

The GIS developed for the Project provides a window to data and information sources provided by government. The majority of the data used is from the Land and Resource Data Warehouse. Other data was provided by BC Hydro and local government.

3.2 Methodology

Resource values on the land base can be identified and expressed quantitatively, usually by area or count, and by Project activity zone component as described in Section 4 Project Description. Table 2 summarizes the categories used to assign values to spatial components in the Project activity zone. The categories correspond to table headings used in the presentation of GIS results. All geographical reference data for the

Project footprint was provided by BC Hydro and included the 461.8 m Site C Maximum Normal Reservoir Level.

Table 2 Definition of GIS categories

Project Component Hierarchy	Description	Hectares
5-Year Beach Line	5-year Beach Line is the predicted extent of shoreline retreat at the Maximum Normal Reservoir Level five years after impoundment of the proposed reservoir as defined in Volume 2 Appendix B Geology, Terrain Stability, and Soil Reports, Part 2 Preliminary Reservoir Impact Lines	9,540.2
Site C Dam Site Area	Site C dam site and substation construction areas and restricted access zones	1,653.2
Transmission Line	Transmission line corridor and onetime clearing areas	1,360.5
Construction Access Roads	Permanent and temporary roads, Highway 29 realignment	413.0
Quarried and Excavated Materials	Off-site construction material sources	734.6
5-Year Beach Line to Outermost Impact Line	5-Year Beach Line to outermost impact line including the stability impact line, landslide generated wave impact or flood impact line as defined in Volume 2 Appendix B Geology, Terrain Stability, and Soil Reports, Part 2 Preliminary Reservoir Impact Lines	8,665.9
Total		**22,367.4**

3.3 List of Indicators and Data Sources

The list of indicators included in the GIS is shown in column 1 of Table 3. The indicators were selected based on a consideration of resources and values that might reasonably be expected to be affected by the Project. The indicators relate mainly to land ownership status, geographical features, built facilities and infrastructure, designations made in the land and resource management planning process and rights granted by government tenure.

The data sources for the GIS indicators are listed in Table 3. Data retrieval was undertaken primarily during October, 2012. Other field references, including the field list, source path and metadata reference are included in the GIS output itself.

Table 3 GIS data sources

Indicator	Source Path	Metadata	Date Accessed
Agricultural Land Reserve	$LOCAL\ALC_AGRI_LAND_RESERVE_POLYS	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=3553&recordSet=ISO19115	23/04/2012
ARIS	-	http://www.empr.gov.bc.ca/Mining/Geoscience/MapPlace/metadata/Pages/ARIS_Metadata.aspx	12/11/2012
Biogeoclimatic Zones	$BCGW\WHSE_FOREST_VEGETATION.BEC_BIOGEOCLIMATIC_POLY	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51819&recordSet=ISO19115	12/11/2012
Coal Bed Methane Potential	$BCGW\WHSE_MINERAL_TENURE.GEOL_COAL_BED_POLY	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=17790&recordSet=ISO19115	12/11/2012
Coal Tenures	$LOCAL\COAL_APPLICATION	data accessed here: http://www.empr.gov.bc.ca/Titles/MineralTitles/gis/Pages/Download.aspx	23/04/2012
Crown Reversions	$BCGW\WHSE_TANTALIS.TA_REVERSION_SHAPES	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=4053&recordSet=ISO19115	12/11/2012
Ecosections	$BCGW\WHSE_TERRESTRIAL_ECOLOGY.ERC_ECOSECTIONS_SP	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=46476&recordSet=ISO19115	12/11/2012
Environmental Remediation Sites	$BCGW\WHSE_WASTE.SITE_ENV_REMEDIATION_SITES_SVW	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=38531&recordSet=ISO19115	12/11/2012
Forest Cover	$BCGW\WHSE_FOREST_VEGETATION.VEG_COMP_LYR_R1_POLY	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=36031&recordSet=ISO19115	12/11/2012
FTEN - Community Forests and Woodlots	$BCGW\WHSE_FOREST_TENURE.FTEN_MANAGED_LICENCE_POLY	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51020&recordSet=ISO19115	12/11/2012
FTEN - Cut Blocks	$BCGW\WHSE_FOREST_TENURE.FTEN_CUT_BLOCK_POLY_SVW	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=50580&recordSet=ISO19115	12/11/2012
FTEN - Free Use Permit	$BCGW\WHSE_FOREST_TENURE.FTEN_FREE_USE_PERMIT_POLY_SVW	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51019&recordSet=ISO19115	12/11/2012
FTEN - Recreation Reserves, Recreation Sites	$BCGW\WHSE_FOREST_TENURE.FTEN_RECREATION_POLY_SVW	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51178&recordSet=ISO19115	12/11/2012
FTEN - Recreation Trail	$BCGW\WHSE_FOREST_TENURE.FTEN_RECREATION_LINES_SVW	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51158&recordSet=ISO19115	12/11/2012
FTEN - Roads	$BCGW\WHSE_FOREST_TENURE.FTEN_ROAD_SECTION_LINES_SVW	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=50818&recordSet=ISO19115	12/11/2012
FTEN - Special Use Permits	$BCGW\WHSE_FOREST_TENURE.FTEN_SPEC_USE_PERMIT_POLY_SVW	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51945&recordSet=ISO19115	12/11/2012
Guide Outfitter Areas	$BCGW\WHSE_WILDLIFE_MANAGEMENT.WAA_G	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recor	12/11/2012

Indicator	Source Path	Metadata	Date Accessed
	UIDE_OUTFITTER_AREA_SVW	dUID=7510&recordSet=ISO19115	
Indian Reserves	$DSSWHSE\firstnat\indian_reserves\tir_bc.gdb\tir_bc\tir_bc	-	12/11/2012
Known Fish Observations	$BCGW\\WHSE_FISH.FISS_FISH_OBSRVTN_PNT_SP	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=43471&recordSet=ISO19115	12/11/2012
Land Act Tenures and Applications	$BCGW\\WHSE_TANTALIS.TA_CROWN_TENURES_SVW	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=4049&recordSet=ISO19115	12/11/2012
Land Use - Baseline Thematic Mapping	$BCGW\\WHSE_BASEMAPPING.BTM_PRESENT_LAND_USE_V1_SP	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=37011&recordSet=ISO19115	12/11/2012
Licensee Operating Areas - Coniferous	$LOCAL\OPERATINGAREAS_CONIF	na - provided by Rob Schuetz Oct 2011	01/10/2011
Licensee Operating Areas - Deciduous	$LOCAL\OPERATINGAREAS_DECID	na - provided by Rob Schuetz Oct 2011	01/10/2011
Limited Entry Hunting Zones	$BCGW\\WHSE_WILDLIFE_MANAGEMENT.WAA_LTD_HNT_ZONE_CURR_YEAR_SVW	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=45594&recordSet=ISO19115	12/11/2012
LRMP Zoning - Dawson Creek	$LOCAL\LRMP_DDC	ftp://ftpprg.env.gov.bc.ca/pub/outgoing/srm/rii/arc/landuse/rmz/	01/06/2008
LRMP Zoning - Fort St John	$LOCAL\LRMP_DJO	ftp://ftpprg.env.gov.bc.ca/pub/outgoing/srm/rii/arc/landuse/rmz/	01/06/2008
Mineral Reserves	$BCGW\\WHSE_MINERAL_TENURE.MTA_SITE_POLY	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=34051&recordSet=ISO19115	12/11/2012
Mineral Reserves - categorized	$BCGW\\WHSE_MINERAL_TENURE.MTA_SITE_POLY	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=34051&recordSet=ISO19115	12/11/2012
Mineral Tenures	$BCGW\\WHSE_MINERAL_TENURE.MTA_ACQUIRED_TENURE_POLY	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=33850&recordSet=ISO19115	12/11/2012
MinFile	$BCGW\\WHSE_MINERAL_TENURE.MINFIL_MINERAL_FILE	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=3955&recordSet=ISO19115	12/11/2012
Mountain Pine Beetle Infestation	$LOCAL\MOUNTAIN_PINE_BEETLE	http://www.for.gov.bc.ca/ftp/HFP/external/!publish/Aerial_Overview/2010/	23/04/2012
Municipalities	$BCGW\\WHSE_TANTALIS.TA_MUNICIPALITIES_SVW	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=50339&recordSet=ISO19115	12/11/2012
OGC Petroleum Development Roads	$BCGW\\WHSE_MINERAL_TENURE.OG_PETRLM_DEV_ROADS_PUB_SP	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58803&recordSet=ISO19115	12/11/2012
OGC Pipeline Rights-of-Way	$BCGW\\WHSE_MINERAL_TENURE.OG_PIPELINE_RW_GOV_SP	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58740&recordSet=ISO19115	12/11/2012
OGC Unconventional Play Trends	$BCGW\\WHSE_MINERAL_TENURE.OG_UNCONVENTNL_PLAY_TRENDS_SP	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58863&recordSet=ISO19115	12/11/2012

Indicator	Source Path	Metadata	Date Accessed
Oil and Gas Facilities	$BCGW\WHSE_MINERAL_TENURE.OG_FACILITY_LOCATIONS_SP	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58739&recordSet=ISO19115	12/11/2012
Oil and Gas Fields	$BCGW\WHSE_MINERAL_TENURE.OG_OIL_AND_GAS_FIELDS_SP	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58860&recordSet=ISO19115	12/11/2012
Oil and Gas Well Surface locations	$BCGW\WHSE_MINERAL_TENURE.OG_SURFACE_HOLE_STATUS_SP	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=48574&recordSet=ISO19115	12/11/2012
Old Growth Management Areas	$BCGW\WHSE_LAND_USE_PLANNING.RMP_OGMA_LEGAL_CURRENT_SVW	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51680&recordSet=ISO19115	12/11/2012
Ownership	$LOCAL\OWNERSHIP	na - provided by BC Hydro.	23/04/2012
PNG Tenures	$BCGW\WHSE_MINERAL_TENURE.PTSA_PETROLEUM_TITLE_POLY	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=45934&recordSet=ISO19115	12/11/2012
Potential Recreation Sites	$LOCAL\POTENTIAL_REC_SITES	-	23/04/2012
Private Aggregate Pits	$BCGW\WHSE_MINERAL_TENURE.MMS_NOTICE_OF_WORK	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=59779&recordSet=ISO19115	12/11/2012
Protected Areas - Existing (Provincial)	$BCGW\WHSE_TANTALIS.TA_PARK_ECORES_PA_SVW	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=3997&recordSet=ISO19115	12/11/2012
Protected Areas - Proposed	$LOCAL\PROPOSED_PROTECTED_AREAS	provided by Jennifer Brooks, ILMB	01/06/2008
Pulpwood Agreements	$BCGW\WHSE_ADMIN_BOUNDARIES.FADM_PULPWOOD_AGREEMENT	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=3721&recordSet=ISO19115	12/11/2012
Range Opportunities - Potential	$LOCAL\RANGE_OPPORTUNITIES	na - provided by Gwen Brace MoF, 2008 (identifed as having no significant changes by Craig Hartel, Sept 2011)	01/06/2008
Range Tenures	$BCGW\WHSE_FOREST_TENURE.FTEN_RANGE_POLY_SVW	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51041&recordSet=ISO19115	12/11/2012
Rec/Tourism - Features	$DSSWHSE\tourism\featurepoint\point	http://ilmbwww.gov.bc.ca/cis/initiatives/tourism/index.html	12/11/2012
Rec/Tourism - Travel Routes	$DSSWHSE\tourism\featureline\arc	http://ilmbwww.gov.bc.ca/cis/initiatives/tourism/index.html	12/11/2012
Rec/Tourism Facilities	$DSSWHSE\tourism\facility\point	http://ilmbwww.gov.bc.ca/cis/initiatives/tourism/index.html	12/11/2012
Recreation Features Inventory	$BCGW\WHSE_FOREST_VEGETATION.REC_FEATURES_INVENTORY	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=4021&recordSet=ISO19115	12/11/2012
Recreation Opportunity Spectrum	$BCGW\WHSE_FOREST_VEGETATION.REC_OPPORTUNITY_SPECTRUM_INV	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=4013&recordSet=ISO19115	12/11/2012
Timber Harvesting Land Base	$LOCAL\THLB	P:\prg\arc\landuse\thlb\thlb_ddc\polygon, thlb_djo\polygon	23/04/2012
Timber Supply Areas (TSA)	$BCGW\WHSE_ADMIN_BOUNDARIES.FADM_TSA	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=32471&recordSet=ISO19115	23/04/2012

Indicator	Source Path	Metadata	Date Accessed
Traplines	$BCGW\WHSE_WILDLIFE_MANAGEMENT.WAA_TRAPLINE_AREAS_SP	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=35836&recordSet=ISO19115	12/11/2012
Tree Farm Licences (TFL)	$BCGW\WHSE_ADMIN_BOUNDARIES.FADM_TFL	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=3731&recordSet=ISO19115	12/11/2012
TRIM Buildings (count of polygons)	$BCGW\WHSE_BASEMAPPING.TRIM_EBM_BUILDINGS	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=32471&recordSet=ISO19115	12/11/2012
TRIM Cultural Points	$BCGW\WHSE_BASEMAPPING.TRIM_CULTURAL_POINTS	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=32471&recordSet=ISO19115	12/11/2012
TRIM Transportation Lines	$BCGW\WHSE_BASEMAPPING.TRIM_TRANSPORTATION_LINES	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=32471&recordSet=ISO19115	12/11/2012
VIMS Established Visual Quality Objective - VLI	$BCGW\WHSE_FOREST_VEGETATION.REC_VIMS_EVQO_SVW	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51898&recordSet=ISO19115	12/11/2012
VIMS Visual Landscape Inventory - VLI	$BCGW\WHSE_FOREST_VEGETATION.REC_VIMS_VLI_SVW	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=51900&recordSet=ISO19115	12/11/2012
Visual Landscape Inventory	$BCGW\WHSE_FOREST_VEGETATION.REC_VISUAL_LANDSCAPE_INVENTORY	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=4021&recordSet=ISO19115	12/11/2012
Water Licences	$BCGW\WHSE_WATER_MANAGEMENT.WLS_POD_LICENCE_SP	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=47674&recordSet=ISO19115	12/11/2012

SOURCE:
Hillcrest Geographics (2012)

1 **Table 3 GIS data from BC Hydro**

Indicator	Source Path	Metadata	Date accessed
Boat Launches - point	$INFRASTRUCTURE\Recreation\Boat_Launch_Generation\BoatLaunch_Locations_pt_shp.shp	na	23/04/2012
Drinking Water Sources (Surface Water PODs)	$INFRASTRUCTURE\Water_Act\WLS_POD_DS.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=50000&recordSet=ISO19115	23/04/2012
Fortis distribution pipe	$INFRASTRUCTURE\Utilities\Fortis\distribution_pipe.shp	na	23/04/2012
Fortis distribution stations	$INFRASTRUCTURE\Utilities\Fortis\distribution_stations.shp	na	23/04/2012
Fortis distribution valves	$INFRASTRUCTURE\Utilities\Fortis\distribution_valves.shp	na	23/04/2012
Fortis transmission pipe	$INFRASTRUCTURE\Utilities\Fortis\transmission_pipe.shp	na	23/04/2012
Fortis transmission pipeline facility	$INFRASTRUCTURE\Utilities\Fortis\transmission_pipeline_facility_location.shp	na	23/04/2012
Fortis transmission valves	$INFRASTRUCTURE\Utilities\Fortis\transmission_valves.shp	na	23/04/2012
OGC Ancillary and Other Applications	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\ANC_OT_APP\ANC_OT_APP.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58679&recordSet=ISO19115	23/04/2012
OGC Engineering Projects	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\OG_ENG_PRJ\OG_ENG_PRJ.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58879&recordSet=ISO19115	23/04/2012
OGC Facilities	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Geomatics_Data_Management\OGC_Facilities_22_Dec_2011_subset.shp	na	23/04/2012
OGC Facility Locations	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\OG_FAC_LOC\OG_FAC_LOC.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58739&recordSet=ISO19115	23/04/2012
OGC Facility Sites	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\OG_FAC_STS\OG_FAC_STS.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58700&recordSet=ISO19115	23/04/2012
OGC Geophysical	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\OG_GEOPHY\OG_GEOPHY_line.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58759&recordSet=ISO19115	23/04/2012
OGC Geophysical Ancillary Features	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\GEOP_ANC_L\GEOP_ANC_L.shp	na	23/04/2012
OGC Oil and Gas Fields	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\OG_FIELDS\OG_FIELDS.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58860&recordSet=ISO19115	23/04/2012
OGC Petroleum Development Roads	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\PET_D_RDS\PET_D_RDS_line.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58802&recordSet=ISO19115	23/04/2012
OGC Petroleum	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\D	http://apps.gov.bc.ca/pub/geometadata/metadataD	23/04/2012

Indicator	Source Path	Metadata	Date accessed
Development Roads Pre-2006	V_RDS_06\DV_RDS_06_line.shp	etail.do?recordUID=58804&recordSet=ISO19115	
OGC Pipeline Rights-of-Way	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\OG_PIPE_LN\OG_PIPE_LN.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58740&recordSet=ISO19115	23/04/2012
OGC Pipelines	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Geomatics_Data_Management\OGC_Pipelines_22_Dec_2011_subset.shp	na	23/04/2012
OGC Section 8 Point Locations	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\SEC_8_LOC\SEC_8_LOC.shp	na	23/04/2012
OGC Section 9 Point Locations	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\SEC_9_PN_L\SEC_9_PN_L.shp	na	23/04/2012
OGC Sump Locations	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\OG_SUMP_LC\OG_SUMP_LC.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58520&recordSet=ISO19115	23/04/2012
OGC Transportation	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Geomatics_Data_Management\OGC_Transportation_22_Dec_2011_subset.shp	na	23/04/2012
OGC Waste Disposal Sites	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\WATE_DISP\WATE_DISP.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58539&recordSet=ISO19115	23/04/2012
OGC Well Bottom Hole Event	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\BOT_HOL_EV\BOT_HOL_EV.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=48594&recordSet=ISO19115	23/04/2012
OGC Well Bottom Hole Status	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\BOT_HOL_ST\BOT_HOL_ST.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=48614&recordSet=ISO19115	23/04/2012
OGC Well Sites	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\OG_WELL_ST\OG_WELL_ST.shp	http://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=58219&recordSet=ISO19115	23/04/2012
OGC Well Surface Hole Event	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\SUR_HOL_EV\SUR_HOL_EV.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=48554&recordSet=ISO19115	23/04/2012
OGC Well Surface Hole Status	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\SUR_HOL_ST\SUR_HOL_ST.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=48574&recordSet=ISO19115	23/04/2012
Points of Diversion with Water Licence Info	$INFRASTRUCTURE\Water_Act\WLS_PDL_SP.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=47674&recordSet=ISO19115	23/04/2012
Rec sites	$INFRASTRUCTURE\Recreation\Recreation_Use_Study_2008-2009_LGL\BC_Hydro_LGL_Rec_Sites.shp	na	23/04/2012
Shaw manholes	$INFRASTRUCTURE\Utilities\Shaw\manhole	na	23/04/2012
Shaw poles	$INFRASTRUCTURE\Utilities\Shaw\pole	na	23/04/2012
Shaw telecom facilities	$INFRASTRUCTURE\Utilities\Shaw\telcom_facility	na	23/04/2012

Indicator	Source Path	Metadata	Date accessed
Shaw telecom underground lines	$INFRASTRUCTURE\Utilities\Shaw\telcom_ug_line	na	23/04/2012
Spectra gas facility - point	$INFRASTRUCTURE\Utilities\Spectra\GAS FACILITY POINT.shp	na	23/04/2012
Spectra gas facility - poly	$INFRASTRUCTURE\Utilities\Spectra\GAS FACILITY POLY.shp	na	23/04/2012
Spectra km post	$INFRASTRUCTURE\Utilities\Spectra\KM POST.shp	na	23/04/2012
Spectra pipeline	$INFRASTRUCTURE\Utilities\Spectra\PIPELINE.shp	na	23/04/2012
TANTALIS - Surveyed Wellsites	$INFRASTRUCTURE\Oil_Gas_Infrastructure\Oil_Gas_Commission\TA_WEL_SVW\TA_WEL_SVW_point.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=4057&recordSet=ISO19115	23/04/2012
Telus telcom facility	$INFRASTRUCTURE\Utilties\Telus\BC_ICIS_TELCOM_FACILITY	na	23/04/2012
Telus telcom structure	$INFRASTRUCTURE\Utilties\Telus\BC_ICIS_TELCOM_STRUCTURE	na	23/04/2012
Telus wire cables	$INFRASTRUCTURE\Utilities\Telus\BC_ICIS_CABLE_WIRE	na	23/04/2012
Water Licensed Works - Lines	$INFRASTRUCTURE\Water_Act\WLS_WLN_SP_line.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=32751&recordSet=ISO19115	23/04/2012
Water Licensed Works - Points	$INFRASTRUCTURE\Water_Act\WLS_WLO_SP.shp	https://apps.gov.bc.ca/pub/geometadata/metadataDetail.do?recordUID=32752&recordSet=ISO19115	23/04/2012

SOURCE:
Hillcrest Geographics (2012)

4 REFERENCES

4.1 Literature Cited

Hillcrest Geographics. 2012. *Geographic Information Systems Analysis of Project Activity Zone*. Unpublished database on file at BC Hydro. Vancouver, BC.