

This provincially funded, three-storey school in southern Kelowna, will be built to LEED gold standards. It will accommodate 750 students in grades 6-8, with a neighbourhood learning centre for child care and other community programs.

Total Estimated Project Value: \$38.1M

# BRITISH COLUMBIA MAJOR PROJECTS INVENTORY

**SECOND QUARTER 2019** 



Ministry of Advanced Education, Skills and Training

# TABLE OF CONTENTS

### British Columbia Major Projects Inventory

#### Second Quarter 2019

Major Projects Inventory as of June 30, 2019.

Publisher: Workforce Innovation and Division Responsible for Skills Training, Ministry of Advanced Education, Skills and Training.

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Report prepared by Workforce Innovation and Division Responsible for Skills Training staff.

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### About this Report

The objectives of this report are to analyze the updates to the Major Projects Inventory and to provide additional context on changes to economic conditions and construction activities. These snapshots of current economic activities are provided to help readers form expectations of the construction activities into the next quarter. This report was prepared with the most current data from economic indicators.

Detailed project listings are available in a searchable Excel database: <u>www.majorprojectsinventory.com</u>

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# TABLE OF CONTENTS

Bri	ish Columbia Major Projects Inventory		1
1.	B.C. Major Projects Highlights – Q2 2019		5
2.	B.C. Major Projects Inventory – Q2 2019		6
3.	B.C. Economy		11
4.	B.C. Demographics		16
5.	Regional Summaries		17
6.	Vancouver Island/Coast Region		18
7.	Mainland/Southwest Region		22
8.	Thompson - Okanagan Region		26
9.	Kootenay Region		30
10.	Cariboo Region		34
11.	North Coast Region		38
12.	Nechako Region		42
13.	Northeast Region		46
App	endices		50
А	ppendix 1	_50	
А	ppendix 2	_51	
А	ppendix 3	_52	
А	ppendix 4	_53	
А	ppendix 5	_54	
B.C.	Government Contact		55

The B.C. Major Projects Inventory (MPI), published quarterly, provides summary information on major projects in the Province of British Columbia. The MPI includes a listing of private and public sector construction projects in B.C. with an estimated capital cost of \$15 million (CAD) or greater (\$20 million or greater within the Lower Mainland–Vancouver area).

Since 2019 Quarter 1, about 75% of all the existing projects received an update. New projects are added to the list every quarter. Projects on hold for longer than two years are removed from the publication. Completed projects are removed from the list in the following quarter.

Project identification	Project name, description, specific and regional location, geographic coordinates, developer, contact information, project type, and project category
Project status	<ul> <li>Proposed, under construction, completed, or on hold</li> <li>Proposed stages</li> <li>Start and completion dates (if available)</li> <li>Update activity on project status</li> <li>Environmental assessment stage</li> </ul>
Project size	Estimated capital cost (if available)
Other project characteristics	Construction type, construction subtype, public sector projects, clean energy projects and/or green (i.e. LEED) building projects, Indigenous peoples' agreements, the number of construction jobs and operating jobs.

Information collected in the MPI includes:

While every effort is made to maintain a comprehensive project list that includes the most current publicly available information, it is important to note that projects are constantly added and re-evaluated by industry. Not all major projects are included in the MPI since projects need to be publicly announced in order to be included and some project information is not published due to confidentiality requirements.

#### Sources of MPI Information

Information sources include print and electronic media, developers, architects, general contractors, and government agencies (provincial, regional, municipal) as well as occasional site visits. Projects that are under consideration or proposed to be funded by the provincial government may be listed where there is public information about such projects. The description may indicate the status of provincial funding applications if such information is publicly available.

#### **Project Location**

Projects are listed within the eight economic development regions: Vancouver Island/Coast, Mainland/Southwest (Vancouver area), Thompson-Okanagan, Kootenay, Cariboo, North Coast, Nechako, and Northeast. A map showing the location of the regions and main population centres is included in the regional sections of the MPI. Projects are also listed according to the nearest population centre, which could be an unincorporated centre or a local government (e.g., a municipality).

#### **Estimated Cost**

Cost estimates are general estimates from the information sources used and are not necessarily produced in a consistent manner. The estimated costs are revised when new information is available. All estimates are recorded in millions of dollars. All capital costs in this report are estimates and therefore subject to change. This is particularly applicable in the early stages of a project proposal. Some capital costs are not included because they were not available at press time or the developer or owner requested that no capital cost be shown.

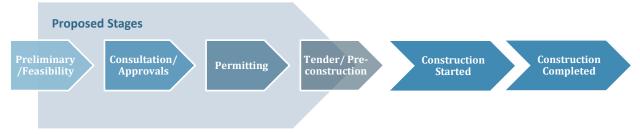
#### **Start and Finish Dates**

Start and finish dates for proposed projects are based on estimates from the sources used, or in some cases, reasonable assumptions. These dates are revised as new information becomes available.

#### **Project Status**

Projects are listed by status: proposed, under construction, completed, or on hold. Projects that are on hold for longer than two years are normally removed from the publication (although retained in our database). Cancelled projects are noted in the project description as "cancelled" and noted in a new field - Update Activity is identified as "cancelled-removing next issue". Cancelled projects and completed projects in this quarter will be removed from the next issue of the MPI. Changes to project status are based on public information releases and/or information supplied by project proponents. Cancelled projects are not included in reported totals in this report.

#### The following diagram illustrates the project stages listed in the database.



Technically, projects can have their status moved to "cancelled" at any stage except at the construction completed stage.

#### Proposed

Any major projects in the public realm with an intention to proceed on the part of a credible proponent are added to the database. Often major projects with an official news release or funding confirmed are added to the inventory. Projects released on the official websites may be included but are subject to approval for inclusion by the proponent. A review process for public projects is obtained by the project manager where the respective ministry can decide to include or remove the proposed projects based on feasibility or funding available for the project.

Proposed projects usually go through the four stages prior to the construction.

At the **Preliminary/Feasibility** stage, the feasibility of the project has been reviewed and the project's design and planning are in process.

**Consultation/Approvals** stage includes approvals for the zoning, environmental assessment, Indigenous people and other public open house processes.

A proposed project will enter **Permitting** stage after obtaining the required approvals (i.e. environmental assessment certificate, if indicated). This stage includes development and building permits, mines, water licenses and other additional information required before moving into pre-construction stage.

**Tender/Pre-construction** stage includes construction tenders and building site preparation such as preloading, demolition, and excavation. The pre-construction work such as excavation or site work may begin in preparation for the construction permit.

#### Sustainable Building Design

Information on sustainable building design is identified as well as construction projects that are registered and certified under a recognized green building rating system (e.g., Leadership in Energy and Environmental Design (LEED®), Green Globes). LEED buildings provide an environmentally responsible standard for energy efficiency in the home and workplace. This designation has been added to the project description to promote awareness of the benefits of green buildings.

#### **Indigenous Affiliation**

Information related to Indigenous people's involvement in projects is based on news releases and published project information that is publicly available. The information is consistent with the information maintained in the Indigenous Business and Investment Council Database (BCIBIC; <u>www.bcibic.ca</u>).

#### **Project Category**

Project Category lists the seven industrial categories:

- a.) manufacturing;
- b.) mining, oil and gas extraction;
- c.) other services;
- d.) public services;
- e.) residential or commercial;
- f.) transportation and warehousing; and,
- g.) utilities (including sewage treatment).

Note that Liquefied Natural Gas (LNG) projects are classified under mining, oil and gas extraction. This is different from the North American Industry Classification System in which LNG is classified as being in the transportation industry.

#### **Environmental Assessment Stage**

The stages of environmental assessment for each project undergoing review under the *B.C. Environmental Assessment Act* are added to this issue.

#### Latitude and Longitude

Fields Latitude and longitude in the format of Degrees minutes seconds (DMS).

#### Telephone

Contact number of the project developer or representative.

#### **Update Activity**

Readers can search for and select projects based on the following seven criteria:

- a.) new proposed projects;
- b.) project started construction;
- c.) cancelled-removing next issue;
- d.) project added-under construction;
- e.) project completed-removing next issue;
- f.) project placed on hold; and,
- g.) project removed from hold.

### 1. B.C. Major Projects Highlights – Q2 2019

The estimated capital cost of all 975 major projects in the second quarter of 2019, totaling \$350.14 billion (B), has decreased from \$355.30 B in the first quarter of 2019. Note that the total capital cost is the combined estimated value of projects identified as proposed, construction started, completed, and on hold excluding cancelled projects.

There are 24 new proposed projects over \$15 million (M) with available capital cost estimates totaling \$1.25 B if all the projects were to proceed. The potential capital investment for new projects has decreased compared to \$2.50 B in the first quarter of 2019.

There are 29 projects that have started construction in B.C., representing an estimated capital cost of \$1.76 B, up from the \$1.45 B reported in the first quarter of 2019. Twenty projects completed construction in the second quarter of 2019, with an estimated capital cost of \$1.45 B compared to \$2.39 B in the first quarter of 2019.

There are 246 projects with public funding contributions with a total capital cost of \$42.92 B. Funding for these projects is allocated through municipal, provincial and/or federal levels of government, crown corporations, public institutions and may include private partnerships. Of these, 141 projects worth a total of \$20.39 B have provincial government funding contributions.

There are 64 projects with a total estimated cost of \$122.53 B involving Indigenous communities in capacities such as project owners, project partners or benefit agreements.

Major projects currently under construction in B.C. totaled \$115.17 B, up from the \$114.83 B in the first quarter of 2019. Proposed projects totaled \$205.64 B, slightly up from \$204.93 B in the previous quarter. Many major project proposals listed are in very preliminary stages and are not approved for construction, therefore capital cost estimates should be viewed with caution. Approximately \$27.89 B of projects are judged to be 'on hold' for the time being, a decrease from the previous quarter value of \$32.61 B.

All capital costs in this report are estimates and therefore subject to change. Some capital costs are not included because they were not available at press time or the developer or owner requested that no capital cost be shown.

### Figure 1 B.C. MPI Highlights0

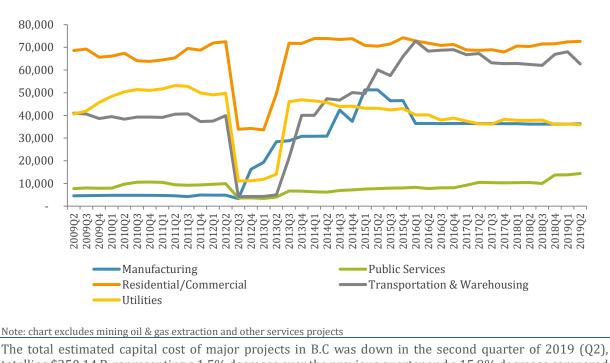
	Number of total major projects
	Value of all projects
	Number of total proposed projects
	Value of proposed projects
	Number of projects under construction
	Value of projects under construction
	Number of projects completed
	Value of projects completed
24	Number of new proposed projects
\$1.25 B	Value of newly proposed projects

### 2. B.C. Major Projects Inventory – Q2 2019

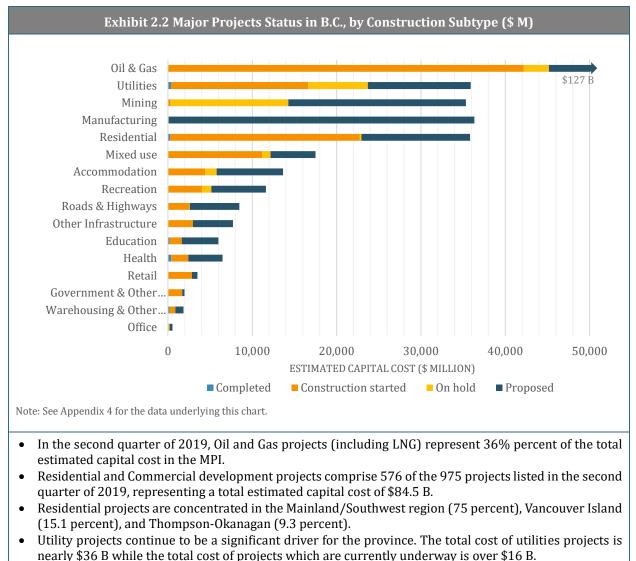
#### By Project Category, Construction Type or Subtype

Exhibit 2.1 Estimated (	Cost Trend	s in B.C. M	ajor Proje	cts, by Pro	oject Categ	ory (\$ M)	
Project Category	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year
Mining & Oil & Gas Extraction	187,837	178,669	173,035	117,125	116,530	-0.5%	-38.0%
Residential/Commercial	70,377	71,478	71,581	72,382	72,614	0.3%	3.2%
Transportation & Warehousing	62,475	62,055	66,910	68,001	62,701	-7.8%	0.4%
Manufacturing	36,155	36,155	36,195	36,195	36,337	0.4%	0.5%
Utilities (incl sewage treatment)	37,799	37,958	36,005	36,237	35,916	-0.9%	-5.0%
Public Services	10,408	9,970	13,721	13,818	14,403	4.2%	38.4%
Other Services	11,213	11,229	11,539	11,539	11,641	0.9%	3.8%
Grand Total	416,264	407,514	408,986	355,297	350,142	-1.5%	-15.9%

Note: Liquefied Natural Gas (LNG) projects are classified under mining, oil and gas extraction. This is different from the North American Industry Classification System in which LNG is classified as being in the transportation industry.



The total estimated capital cost of major projects in B.C was down in the second quarter of 2019 (Q2), totalling \$350.14 B, representing a 1.5% decrease over the previous quarter and a 15.9% decrease compared to one year earlier.



- There are 53 mining projects listed in the MPI with a total estimated value of \$35.3 B.
- The top categories for new projects added to the MPI are Education (\$618 M), Primarily Residential Single Use (\$386 M), and Other Manufacturing (\$142 M).
- Public Infrastructure The value of public funding contributions was \$42.9 B for 246 projects across all levels of government. Of these, 141 projects worth a total of \$20.4 B have provincial government funding contributions. It is important to note that this figure reflects the total cost, not just the provincial contribution.

Construction	Vancouver	Mainland/	Thompson-	Kootenay	Cariboo	North	Nechako	Northeast	Tota
Type & Subtype Residential	Island/Coast	Southwest	Okanagan			Coast			
Subtotal	12,250	28,531	9,485	80	0	0	100	0	50,446
Primarily residential - Single use	8,450	19,172	8,035	80	0	0	100	0	35,837
Residential Mixed Use	3,800	9,359	1,450	0	0	0	0	0	14,609
Commercial Subtotal	3,719	17,871	5,654	4,902	1,322	46	0	540	34,054
Commercial Mixed Use	200	2,690	0	0	0	0	0	0	2,890
Accommodation	2,266	4,851	3,299	2,302	940	0	0	0	13,658
Recreation	220	6,575	2,210	2,600	0	16	0	0	11,62
Retail	923	1,960	115	0	0	0	0	500	3,498
Office	70	472	0	0	0	0	0	0	542
Warehousing	0	265	0	0	0	0	0	0	26
Other Commercial	40	1,058	30	0	382	30	0	40	1,58
Industrial Subtotal	2,130	2,517	1,069	2,936	7,231	157,161	6,328	19,745	199,11
Mining	130	160	1,039	2,936	2,646	17,991	6,328	4,101	35,33
Oil & Gas	2,000	2,125	0	0	4,570	107,110	0	11,644	127,44
Manufacturing - Wood Products	0	0	30	0	0	60	0	0	90
Manufacturing - Petrochemical	0	0	0	0	0	32,000	0	4,000	36,000
Other Manufacturing	0	232	0	0	15	0	0	0	24
Institutional & Government Subtotal	3,789	7,980	1,638	76	289	448	79	124	14,42
Education	2,120	3,249	488	18	44	0	29	31	5,97
Health	34	4,478	1,110	58	245	448	50	50	6,47
Government buildings	1,615	253	40	0	0	0	0	43	1,95
Other Institutional & Government	20	0	0	0	0	0	0	0	20
Infrastructure Subtotal	8,652	16,392	2,942	974	1,560	4,543	551	16,488	52,10
Utilities	6,716	5,172	1,083	974	1,090	3,939	506	16,436	35,91
Roads & Highways	306	5,822	1,709	0	470	69	45	52	8,47
Other Transportation	1,630	5,398	150	0	0	535	0	0	7,71
Grand Total	30,540	73,291	20,788	8,968	10,402	162,198	7,058	36,897	350,14

### **By Project Status**

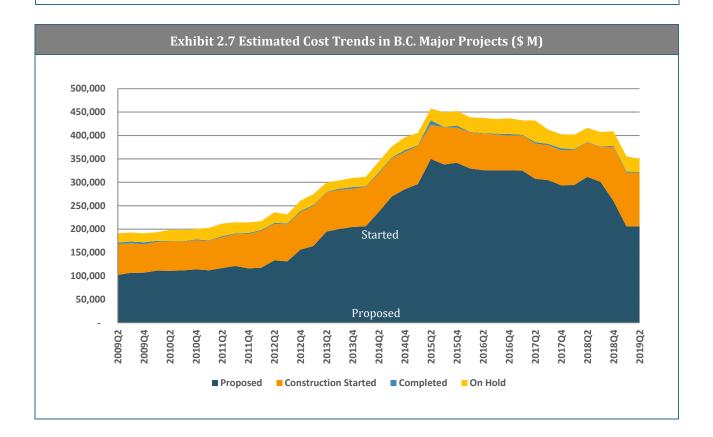
Exhibit 2.4	4 Estimated Cos	st Trends in	B.C. Major F	Projects, by	Project Stat	tus (\$ M)	
Status	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year
Proposed	311,674	301,051	260,341	205,769	205,635	-0.1%	-34.0%
Construction started	73,672	74,406	115,366	114,825	115,165	0.3%	56.3%
Completed	989	748	2,214	2,393	1452	-39.3%	46.8%
On hold	29,929	31,309	31,065	32,310	27,890	-13.7%	-6.8%
Grand Total	416,264	407,514	408,986	355,297	350,142	-1.5%	-15.9%

The value of completed projects decreased by 39.3% to \$1.45 B in Q2 2019 over the previous quarter. Notable projects completed were Interior Heart and Surgical Centre (\$381 M) in Kelowna and Narrows Inlet Hydro Project (\$210 M) in Sechelt.

Ex	hibit 2.5 Summary	v of B.C. Major Pr	ojects (by Proje	ect Status)	
	Estimated Capital Cost (\$M)	Percentage of Total	Number of Projects	Average Project Value (\$ M)	Average Years in Inventory
Proposed	205,635	59%	519	445	5.5
Preliminary/Feasibility	51,594	15%	128	491	4.4
Consultation/Approvals	71,882	21%	229	346	6.1
Permitting	51,226	15%	44	1348	4.8
Tender/Preconstruction	13,853	4%	70	207	3.3
Stage Unknown	17,080	5%	48	388	9.0
On hold	27,890	8%	54	558	11.5
Construction started	115,165	33%	382	308	6.2
Completed	1452	0%	20	73	4.9
Total	350,142	100%	975	386	6.1

Note: Average project value is the average of those projects for which there is a cost estimate. An average year in inventory is the average time span between the projects as first recorded in the MPI and the current period. Regional detail is provided in Exhibit 2.6.

Exhibit 2.6 F	Estimated Cost	of Region	al Major Pro	ojects, by P	roject Statı	ıs (\$ M)	
Development Region	Proposed	Started	Completed	On Hold	Total	Change from the previous quarter	Change from the previous year
1. Vancouver Island/Coast	16,449	11,838	100	2,153	30,540	-1.9%	-49.5%
2. Mainland/Southwest	41,898	30,098	933	362	73,291	-6.1%	6.7%
3. Thompson-Okanagan	4,648	14,383	419	1,338	20,788	1.1%	-2.3%
4. Kootenay	2,647	3,901	0	2,420	8,968	0.2%	1.5%
5. Cariboo	9,588	514	0	300	10,402	2.4%	1.0%
6. North Coast	113,996	36221	0	11,981	162,198	0.0%	-19.9%
7. Nechako	4,522	201	0	2,335	7,058	0.0%	1.2%
8. Northeast	11,887	18,009	0	7,001	36,897	-0.8%	-0.9%
Total	205,635	115,165	1452	27,890	350,142	-1.5%	-15.9%



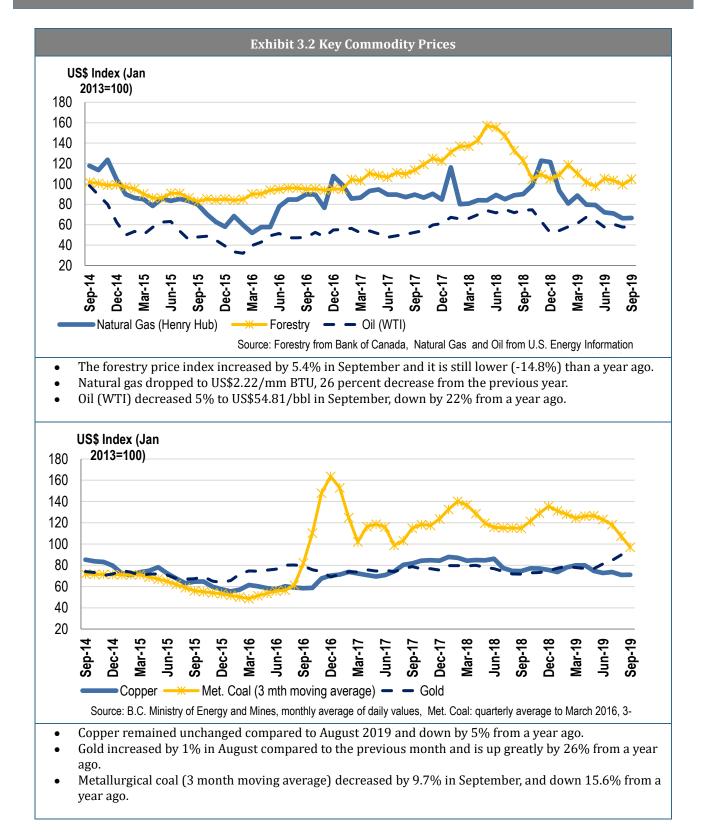
# 3. B.C. Economy

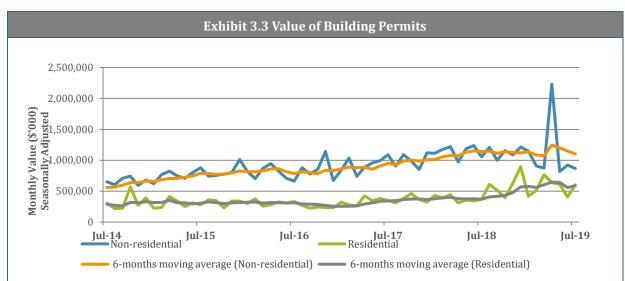
	Exhibit 3.1 Econo	omic Activity			
	2019	2020	2021	2022	2023
Real GDP	+2.4 %	+2.3 %	+2.1 %	+2.0 %	+2.0%
Source: B.C. Budget and Fiscal	Plan 2019/20 – 2021/22				

	Most Recent Period	Amount	Change from previous month	Change from previous year	Data Type
Retail trade (\$ M)	May-19	7,216	-0.2%	-0.1%	seasonally adjusted
Manufacturing sales (\$ M)	Aug-19	4,267	-1.4%	-7.7%	seasonally adjusted
Residential - building permits (\$ M)	Jul-19	867	-6.1%	-17.8%	seasonally adjusted
Residential - housing starts (units)	Aug-19	36,862	-27.5%	-18.4%	seasonally adjusted at annual rates
Non-Residential building permits (\$ M)	Jul-19	603	48.1%	63.0%	seasonally adjusted
Exports - all merchandise (\$ M)	Jul-19	3,628	-5%	-7.6%	seasonally adjusted
	P	rices			
B.C. Consumer price index (2002=100)	Jul-19	132.4	0.1%	3.3%	not seasonally adjusted
Exchange rate	Aug-19	US 0.75	-1.3%	-1.8%	not seasonally adjusted
Average 5-year residential mortgage rate	Aug-19	4.08%	-0.06p.p.	-0.35p.p.	not seasonally adjusted
	Labou	r Market			
Employment	Aug-19	2,561,600	-0.3%	3.0%	seasonally adjusted
Unemployment rate	Aug-19	5.0%	0.6p.p.	-0.1p.p.	seasonally adjusted
Participation rate	Aug-19	65.6%	0.1p.p.	0.7p.p.	seasonally adjusted
Average weekly earnings	Aug-19	1013.11	0.7%	3.2%	seasonally adjusted

Source: Statistics Canada & Bank of Canada

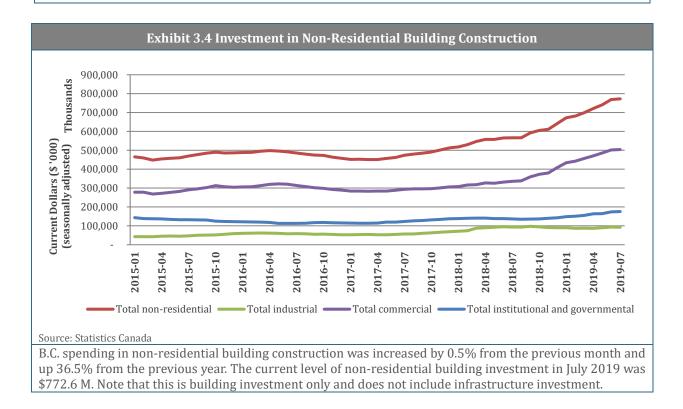
Note: p.p. is percentage point, used here to show the difference between two percentage rates.

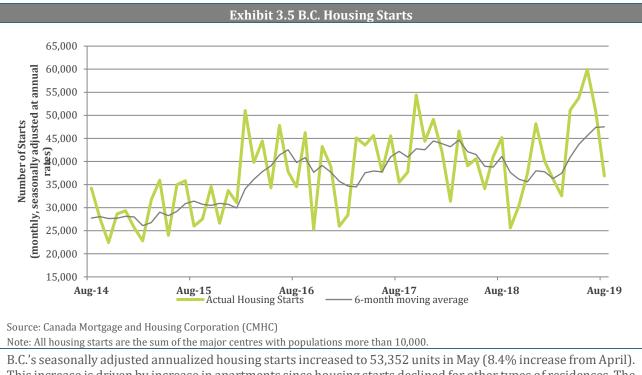




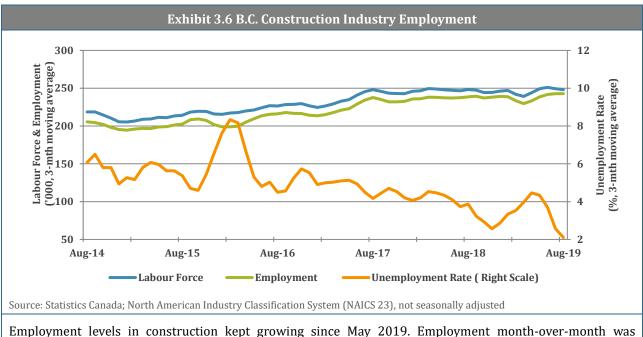
#### Source: Statistics Canada

During July, an average of \$1.4 billion worth of building permits was issued in B.C. based on 3-month moving average, 24.9% decrease compared to the previous month and 7% decrease compared to the same month in the previous year. This drop is largely driven by the one-time surge in April due to changes in regulation getting out of the calculation of the 3-month moving average. Residential building permits value increased by 48.1% from June 2019 and by 63% compared to the same month in the previous year.

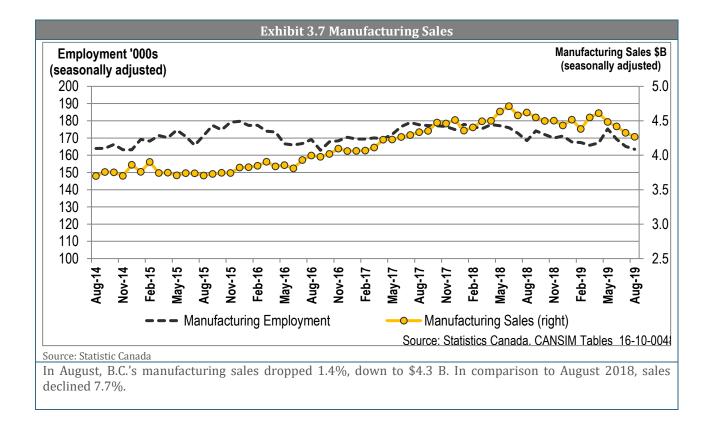




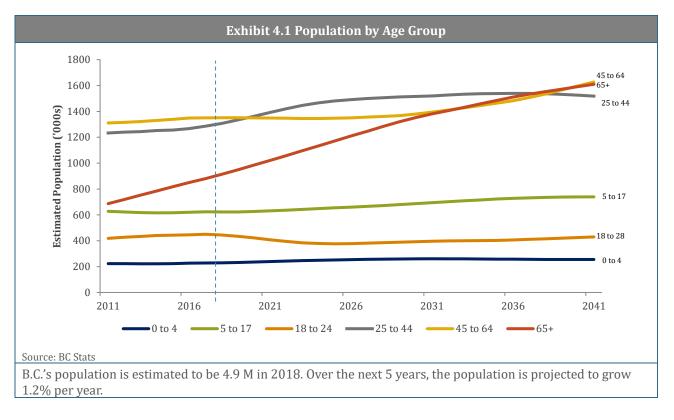
This increase is driven by increase in apartments since housing starts declined for other types of residences. The 6-month moving average of the series increased by 6.6% from the previous month and by 4.3% from a year ago.



Employment levels in construction kept growing since May 2019. Employment month-over-month was unchanged while labour force decreased 0.5%. The unemployment rate in B.C.'s construction industry decreased 0.5 percentage points to the historical low: 2.1%.



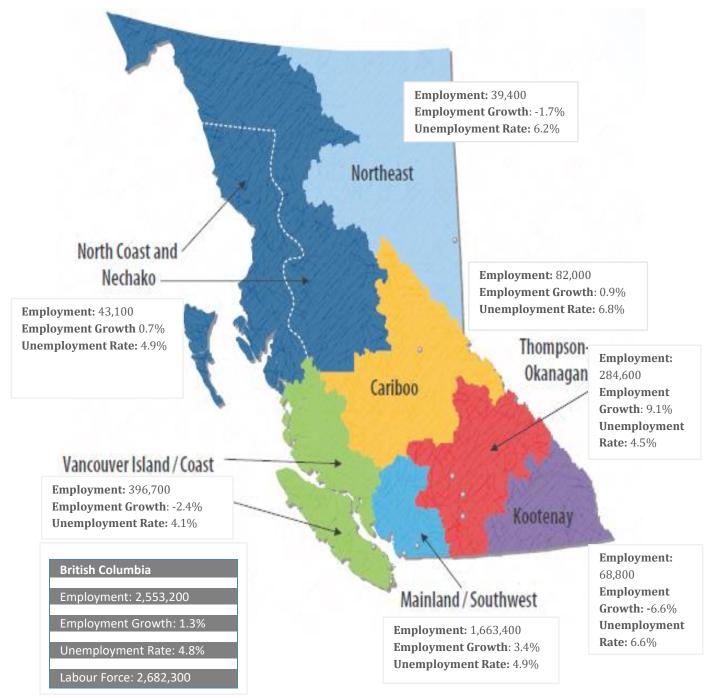
### 4. B.C. Demographics



# **REGIONAL SUMMARIES**

### 5. Regional Summaries

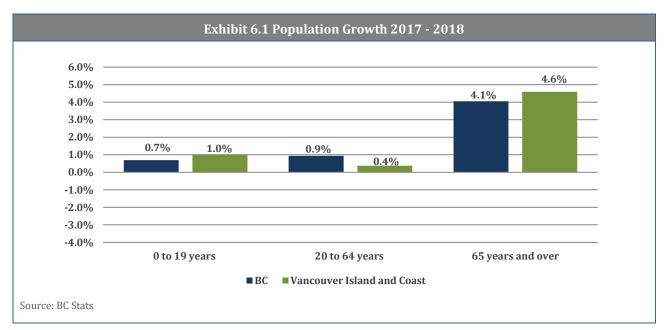
Regional Labour Market Statistics – September 2019

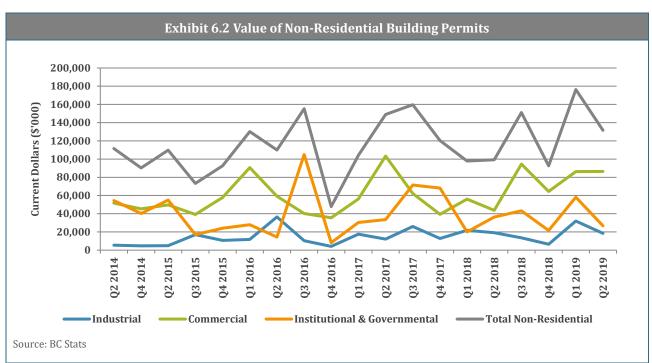


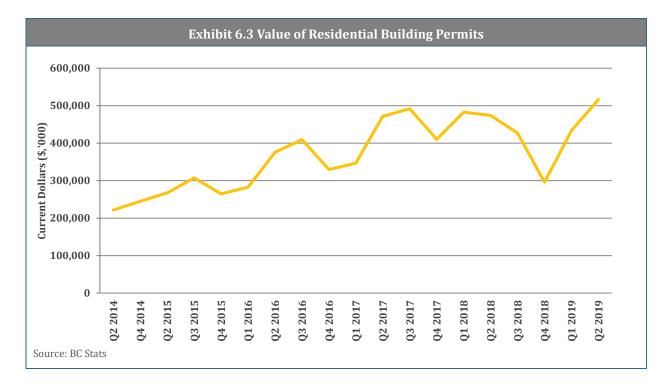
Note: Employment growth is over the previous 12 months. Data for B.C. at the provincial level is seasonally adjusted. Data for the regions is not seasonally adjusted and is based on 3-month moving averages. This means that the data at the provincial level is not directly comparable to the regional data, but the data for each region is directly comparable with the other regions. Source: Statistics Canada

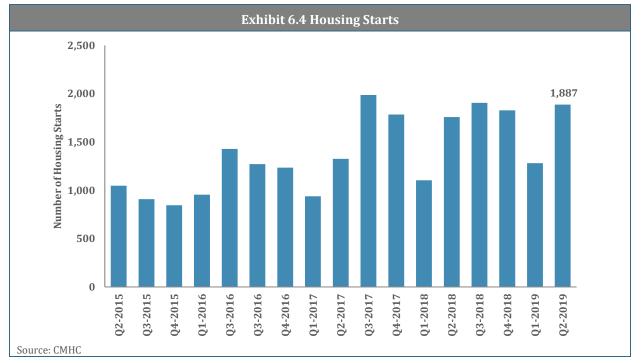
### 6. Vancouver Island/Coast Region

### **Key Economic Indicators**

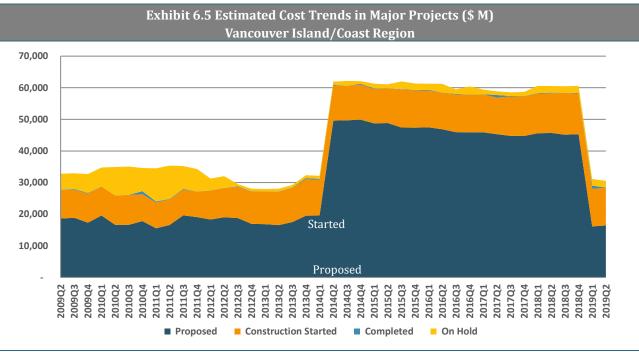








### **Trends in Major Projects**



• In Q2 2019, the Vancouver Island/Coast region has a total of 152 major projects with a combined value of \$30.5 B.

• There are 5 newly proposed projects added to the MPI this quarter West Langford Elementary and Middle School in Langford (\$89 M), Victoria High School Upgrades (\$80 M), Ucluelet Secondary School in Alberni (\$33 M), Hammond Bay Elementary in Nanaimo-Ladysmith (\$16 M) and the Haro Condominiums in Victoria.

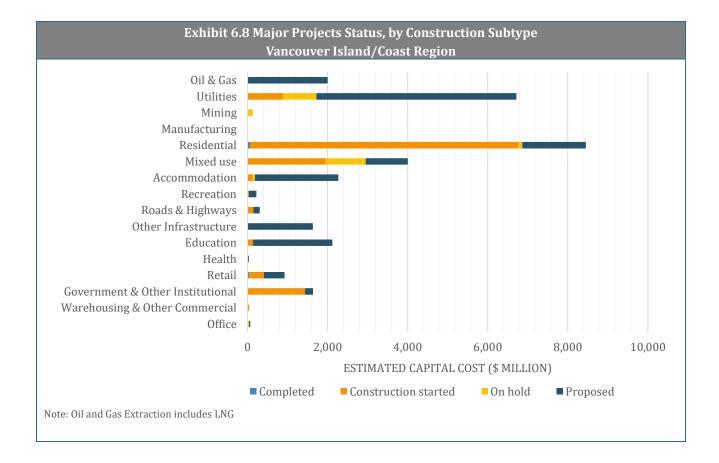
• Sandown Commons Retail Centre in North Saanich (\$40 M), Jukebox Lofts (\$35 M) and BlueSky Victoria Condominiums (\$25 M) in Victoria were completed in this quarter.

• Townley Lodge Redevelopment in Victoria (\$18 M) began construction in this quarter.

	6.6 Estimated		Island/Coas				
Status	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year
Proposed	45,685	45,157	45,317	16,152	16,449	1.8%	-64.0%
Construction started	12,557	13,205	12,834	11,923	11,838	-0.7%	-5.7%
Completed	204	68	195	985	100	-89.8%	-51.0%
On hold	2,073	2,073	2,223	2,073	2,153	3.9%	3.9%
Grand Total	60,519	60,503	60,569	31,133	30,540	-1.9%	-49.5%

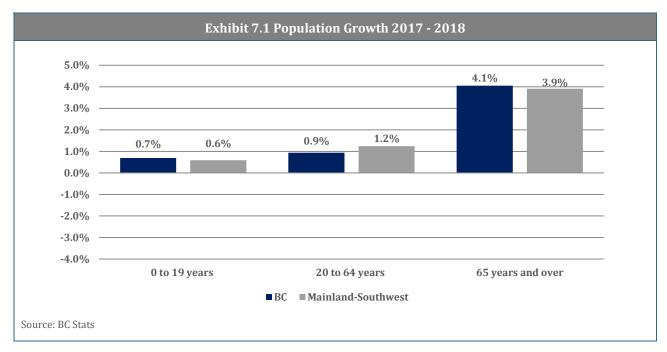
	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	16,449	54%	81	222	6.2
Preliminary/Feasibility	3,565	12%	24	178	5.4
Consultation/Approvals	5,974	20%	36	181	6.4
Permitting	2643	9%	8	330	4.
Tender/Preconstruction	101	0%	5	20	3.1
Stage Unknown	4166	14%	8	521	11.
On hold	2,153	7%	11	215	11.
Construction started	11,838	39%	57	211	7.
Completed	100	0%	3	33	4.
Total	30,540	100%	152	214	7.2

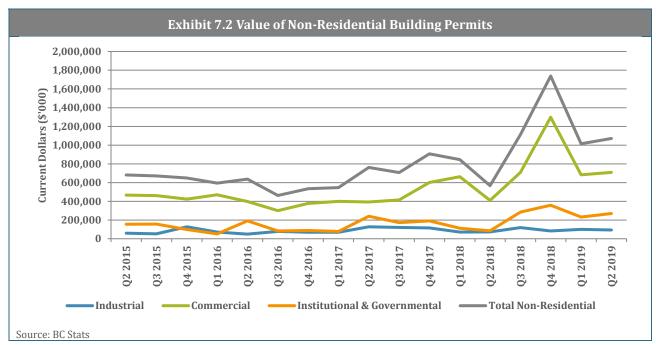
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

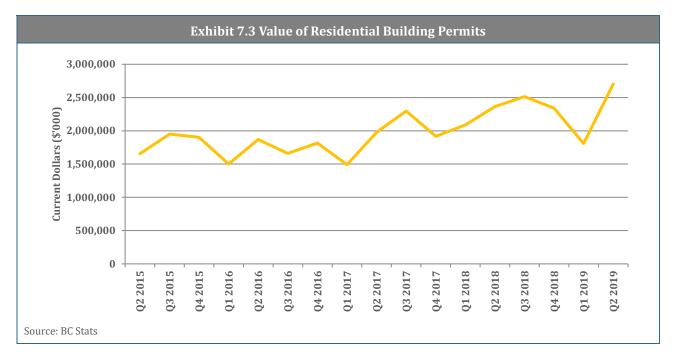


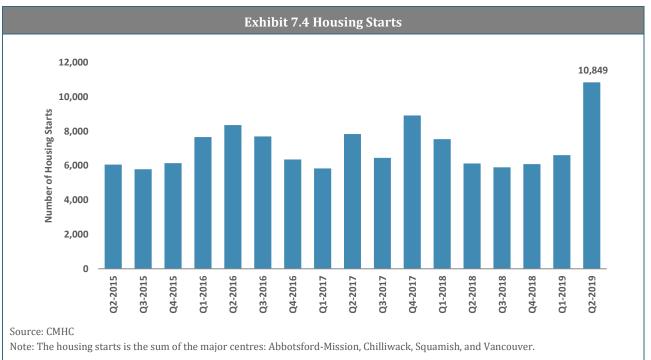
# 7. Mainland/Southwest Region

### **Key Economic Indicators**

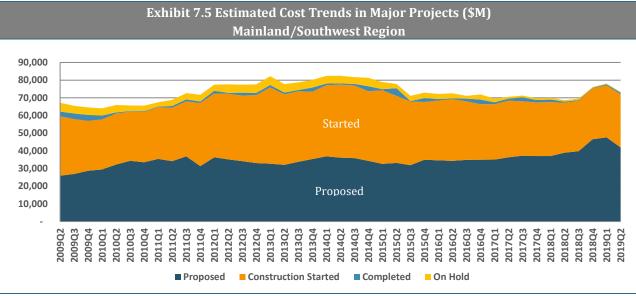








#### **Trends in Major Projects**

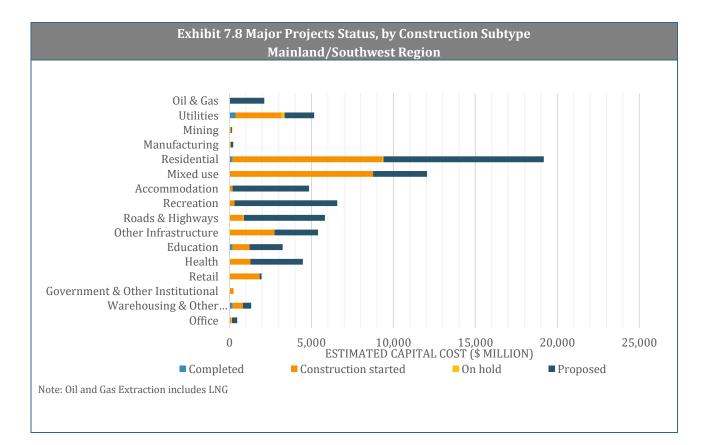


- In Q2 2019, the Mainland/Southwest region has a total of 542 major projects with a combined value of \$73.3 B, representing a 6.1% decrease over the previous quarter but still a 6.7% increase compared to one year earlier.
- There are 15 newly proposed projects added to the MPI this quarter. The top three largest projects are DELTA SCM Grinding Facility (\$142 M) and UBC's Nursing and Kinesiology Building (\$134 M) and Mathematics Building replacement (\$118 M). See more new projects in Appendix 1.
- Fifteen major projects were completed in this quarter, such as Narrows Inlet Hydro Project in Sechelt (\$210 M), Ironworks Commercial Development in Vancouver (\$90 M) and UBC Biological Sciences Building addition and renovation (\$88 M). See more completed projects in Appendix 3.
- Twenty-five major projects began construction in this quarter with total capital costs of \$1.58 B. The top three largest projects are Annacis Island Wastewater Treatment Plant upgrades (\$550 M), Burnaby Gilmore Place mixed-use development (\$100 M), and Grandview Heights Secondary School (\$93 M). See more projects underway in Appendix 2.

Exhibit 7.6 Estimated Cost Trends in Major Projects, by Project Status (\$ M) Mainland/Southwest Region									
Status	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year		
Proposed	38,912	39,725	46,522	47,607	41,898	-12.0%	7.7%		
Construction started	28,283	28,515	28,725	29,415	30,098	2.3%	6.4%		
Completed	600	451	384	643	933	45.1%	55.5%		
On hold	892	892	467	362	362	0.0%	-59.4%		
Grand Total	68,687	69,583	76,098	78,027	73,291	-6.1%	6.7%		

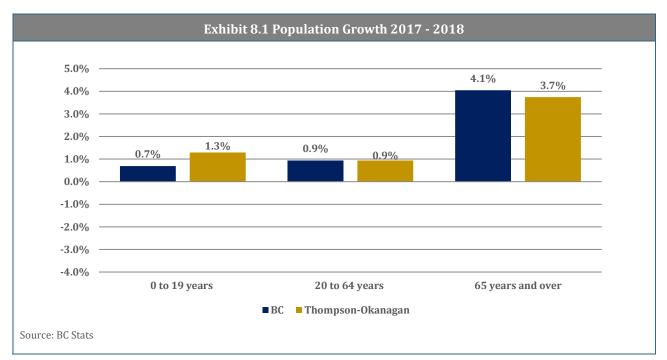
Exhibit 7.7 Summary of Major Projects (by Project Status) Mainland/Southwest Region								
	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory			
Proposed	41,898	57%	283	165	4.4			
Preliminary/Feasibility	10,668	15%	63	201	3.9			
Consultation/Approvals	13,747	19%	121	128	4.8			
Permitting	4,351	6%	22	218	3.4			
Tender/Preconstruction	7,213	10%	56	134	3.0			
Stage Unknown	5,919	8%	21	296	8.3			
On Hold	362	0%	9	52	10.0			
Construction Started	30,098	41%	233	133	4.7			
Completed	933	1%	15	62	4.8			
Total	73,291	100%	540	146	4.6			

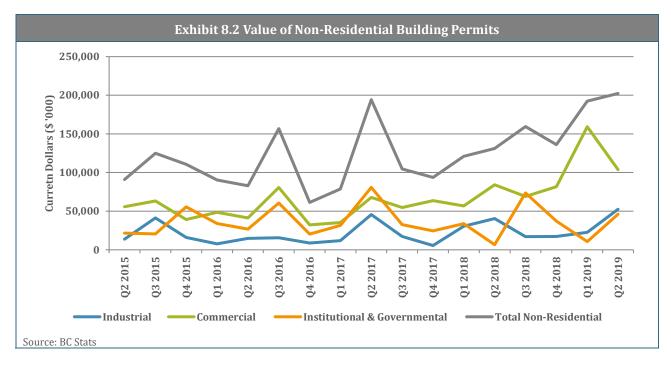
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

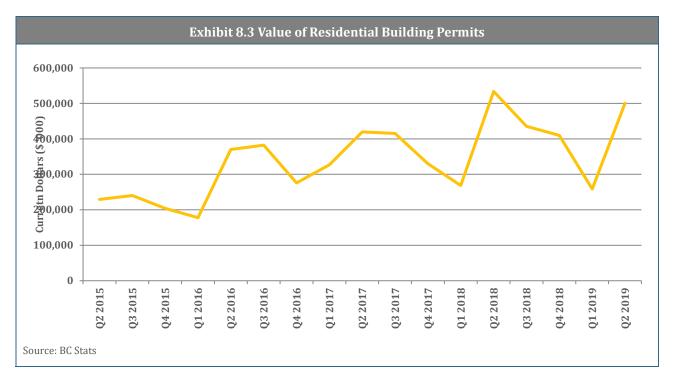


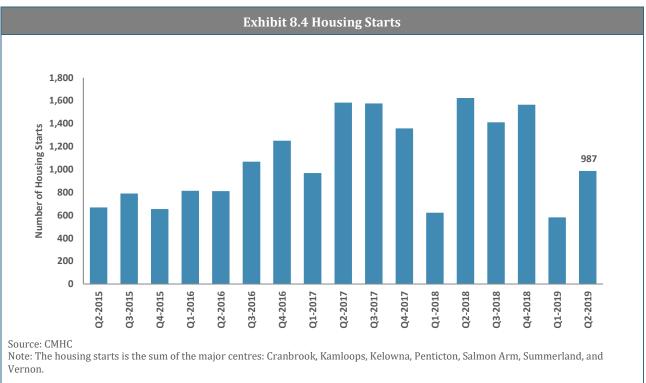
### 8. Thompson - Okanagan Region

#### **Key Economic Indicators**

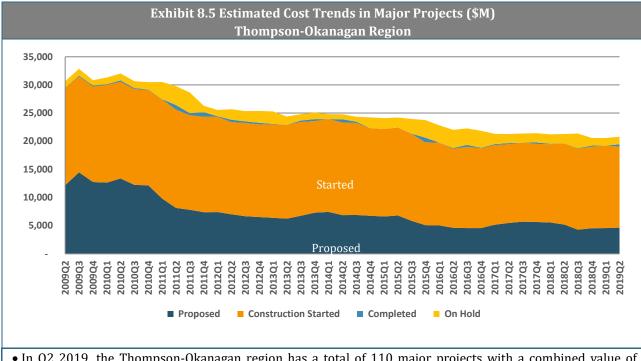








#### **Trends in Major Projects**

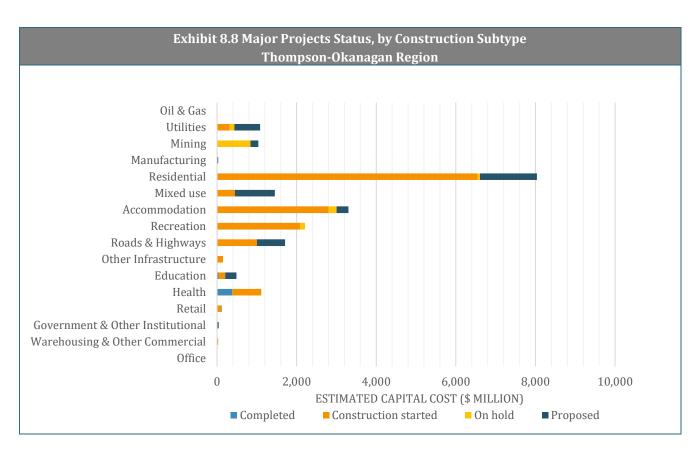


- In Q2 2019, the Thompson-Okanagan region has a total of 110 major projects with a combined value of \$20.8 B, a 1.1% increase from previous quarter and 2.3% declined compared to one year earlier.
- There are two newly proposed projects added to the MPI this quarter: UBC Okanagan Industrial Scale Engineering Laboratory Expansion and Interdisciplinary Collaboration & Innovation Building (\$130 M) in Kelowna,
- Interior Heart and Surgical Centre in Kelowna (\$381 M) and Canyon Falls Middle (formerly Okanagan Mission Junior Middle) (\$38 M) were completed in this quarter.
- Highway 1 Illecillewaet four laning in Revelstoke (\$85 M) and UBC Okanagan 's Skeena Residence (\$25 M) and Nechako Residence (\$51M) in Kelowna began construction in this quarter.

Exhibit 8.6 Estimated Cost Trends in Major Projects, by Project Status (\$ M) Thompson-Okanagan Region									
Status	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year		
Proposed	5,210	4,276	4,533	4,581	4,648	1.5%	-10.8%		
Construction started	14,438	14,387	14,516	14,641	14,383	-1.8%	-0.4%		
Completed	0	90	183	0	419	0.0%	0.0%		
On hold	1,638	2,621	1,338	1,338	1,338	0.0%	-18.3%		
Grand Total	21,286	21,374	20,570	20,560	20,788	1.1%	-2.3%		

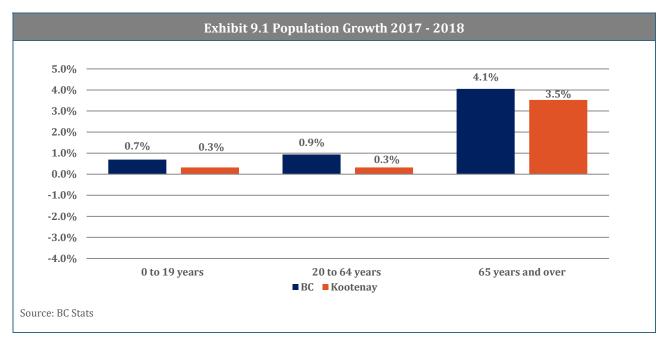
	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	4,648	22%	44	116	6.5
Preliminary/Feasibility	845	4%	14	77	4.3
Consultation/Approvals	2,647	13%	15	176	8.3
Permitting	432	2%	5	86	7.4
Tender/Preconstruction	385	2%	3	128	1.7
Stage Unknown	339	2%	7	57	8.3
On hold	1,338	6%	6	223	12.6
Construction started	14,383	69%	58	252	9.2
Completed	419	2%	2	210	5.3
Total	20,788	100%	110	198	8.2

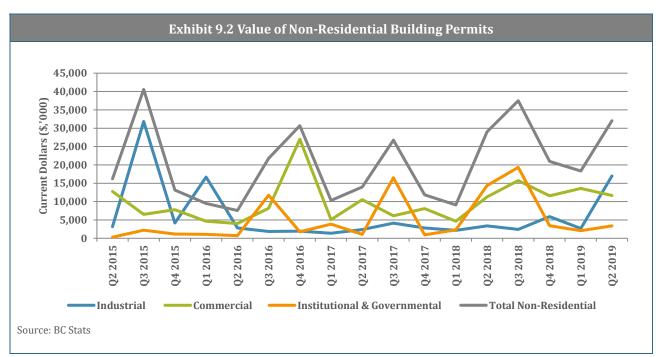
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

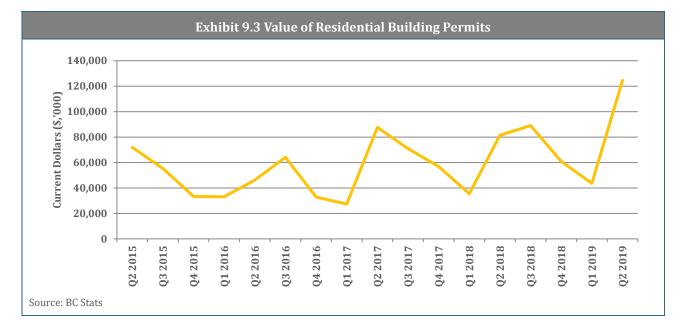


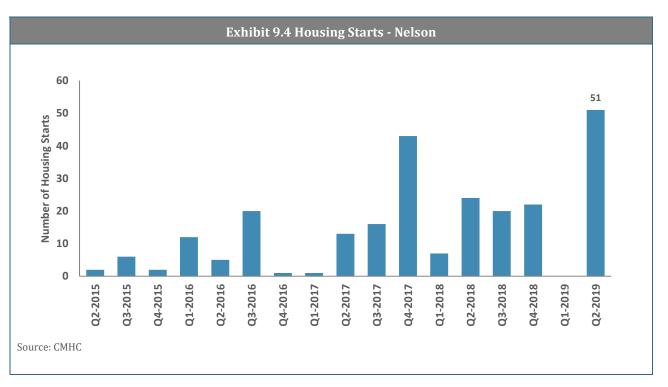
### 9. Kootenay Region

#### **Key Economic Indicators**

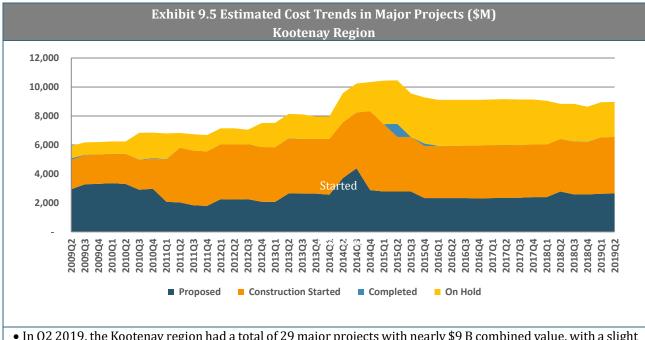








#### **Trends in Major Projects**



• In Q2 2019, the Kootenay region had a total of 29 major projects with nearly \$9 B combined value, with a slight increase (0.2%) compared to the previous quarter, which represents a 1.5% increase compared to one year earlier.

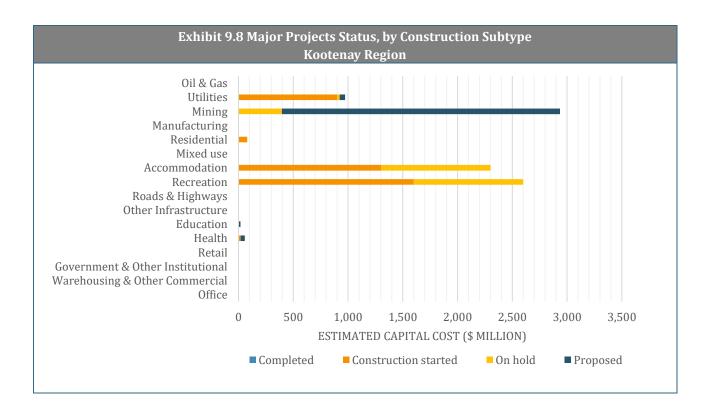
• Newly proposed College of the Rockies student housing (\$18 M) in Cranbrook is added to the MPI this quarter.

Exhibit 9.6 Estimated Cost Trends in Major Projects, by Project Status (\$M) Kootenay Region									
	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year		
Proposed	2,779	2,590	2,590	2,629	2,647	0.7%	-4.7%		
Construction started	3,634	3,623	3,601	3,901	3,901	0.0%	7.3%		
Completed	-	28	22	-	-	0.0%	0.0%		
On hold	2,420	2,592	2,420	2,420	2,420	0.0%	0.0%		
Grand Total	8,833	8,833	8,633	8,950	8,968	0.2%	1.5%		

#### Exhibit 9.7 Summary of Major Projects (by Project Status) Kootenay Region

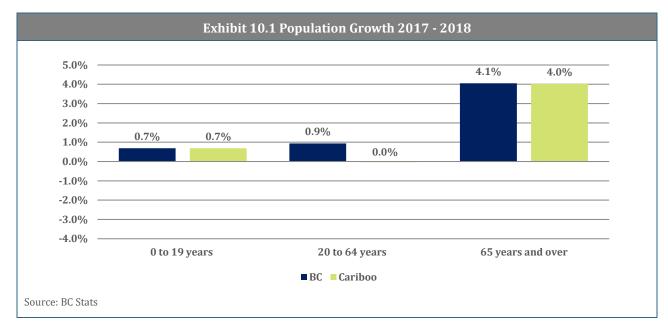
	11000001149 110			
Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
2,647	30%	11	331	5.0
57	1%	4	29	2.0
2,540	28%	5	508	7.5
0	0%	0	0	0.0
0	0%	0	0	0.0
50	1%	2	50	5.0
2,420	27%	4	605	15.2
3,901	43%	14	279	15.2
0	0%	0	0	0.0
8,968	100%	29	345	11.3
	Cost (\$ million) 2,647 57 2,540 0 0 0 50 50 2,420 3,901 0	Estimated Capital Cost (\$ million)         Percentage of Total           2,647         30%           57         1%           2,540         28%           0         0%           557         1%           2,540         0%           0         0%           3,901         43%           0         0%	Cost (\$ million)         Total         Projects           2,647         30%         11           57         1%         4           2,540         28%         5           0         0%         0           0         0%         0           50         1%         2           3,901         43%         14	Estimated Capital Cost (\$ million)         Percentage of Total         Number of Projects         Average Project Value (\$ million)           2,647         30%         11         331           57         1%         4         29           2,540         28%         5         508           0         0%         0         0           10         0%         0         0           2,540         28%         5         508           0         0%         0         0           10         0%         0         0           10         0%         14         29           2,420         27%         4         605           3,901         43%         14         279

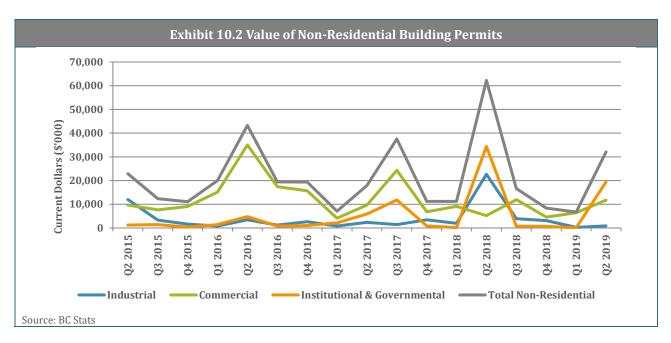
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

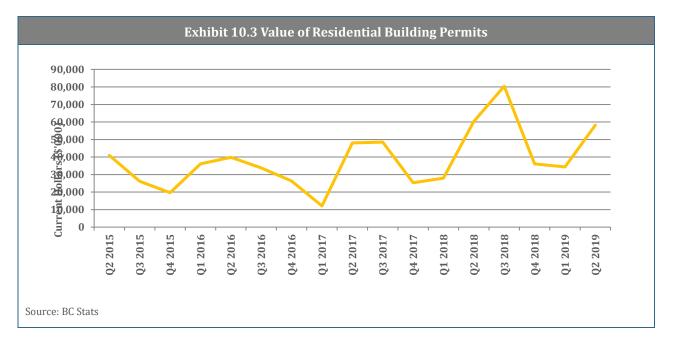


### 10. Cariboo Region

#### **Key Economic Indicators**

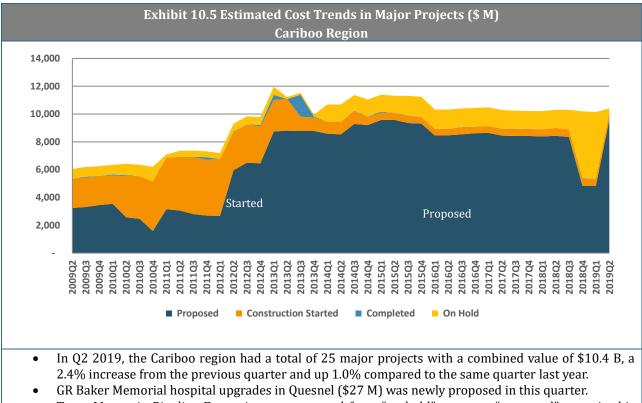








#### **Trends in Major Projects**



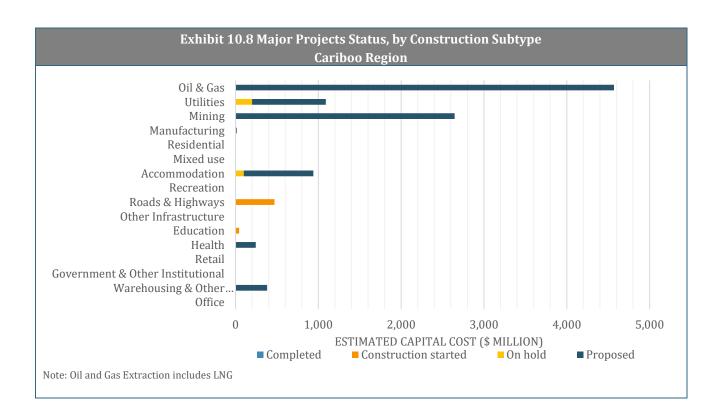
• Trans Mountain Pipeline Expansion was removed from "on hold" status to "proposed" stage in this quarter.

Exhibit 10.6 Estimated Cost Trends in Major Projects, by Project Status (\$M) Cariboo Region										
Status	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year			
Proposed	8,443	8,343	4,843	4,843	9,588	98.0%	13.6%			
Construction started	559	559	514	514	514	0.0%	-8.1%			
Completed	0	0	43	0	0	0.0%	0.0%			
On hold	1,300	1,400	4,800	4,800	300	-93.8%	-76.9%			
Grand Total	10,302	10,302	10,200	10,157	10,402	2.4%	1.0%			

#### Exhibit 10.7 Summary of Major Projects (by Project Status) Cariboo Region

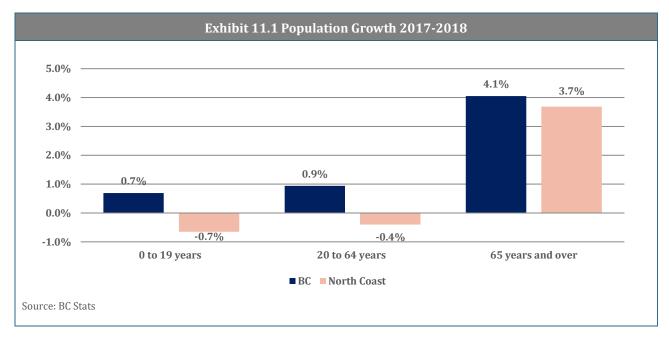
	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	9,588	92%	20	505	8.6
Preliminary/Feasibility	1,019	10%	6	204	4.8
Consultation/Approvals	8,439	81%	10	844	9.2
Permitting	0	0%	0	0	0.0
Tender/Preconstruction	60	1%	1	60	20.3
Stage Unknown	70	1%	3	23	10.3
On hold	300	3%	2	150	15.2
Construction started	514	5%	3	171	6.3
Completed	0	0%	0	0	0.0
Total	10,402	100%	25	433	8.9

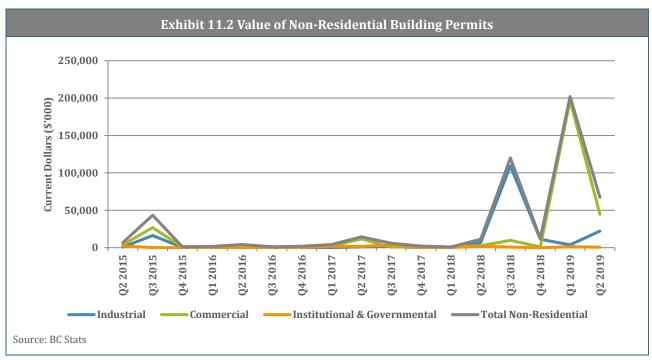
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

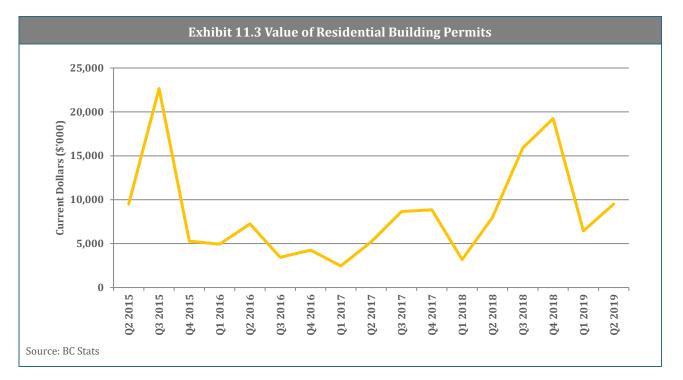


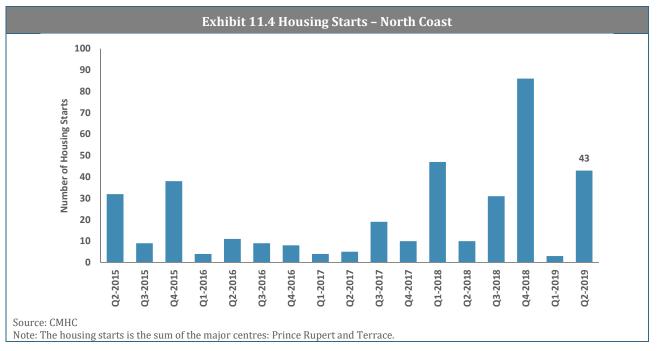
### 11. North Coast Region

#### **Key Economic Indicators**

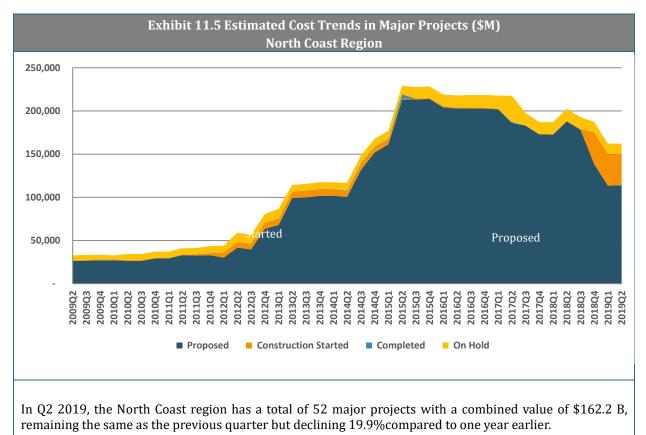








#### **Trends in Major Projects**

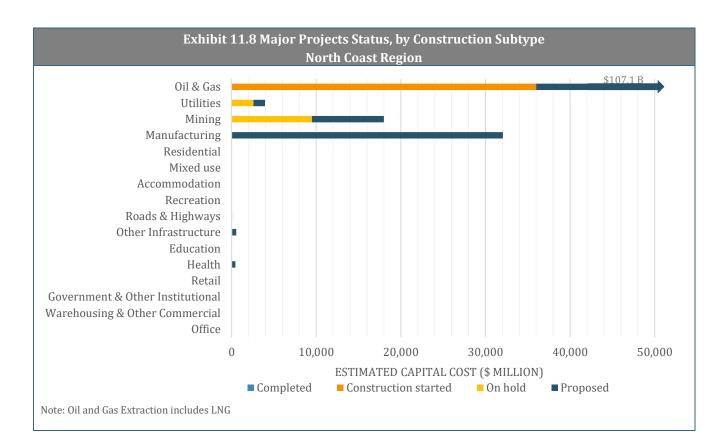


		North	i Coast Regi	ion			
Status	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year
Proposed	187,963	178,348	138,612	113,548	113,996	0.4%	-39.4%
Construction started	669	669	36696	36221	36221	0.0%	5314.2%
Completed	15	0	18	475	0	0.0%	0.0%
On hold	13,770	13,770	11,981	11,981	11,981	0.0%	-13.0%
Grand Total	202,417	192,787	187,307	162,225	162,198	0.0%	-19.9%

# Exhibit 11.7 Summary of Major Projects (by Project Status) <u>North Coast Regi</u>on

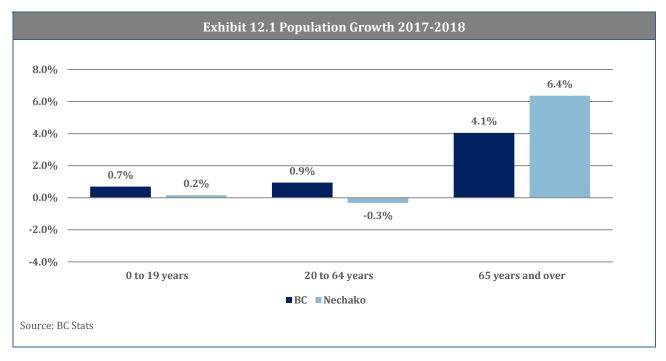
	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	113,996	70%	39	3,677	7.1
Preliminary/Feasibility	34,415	21%	12	3,824	5.2
Consultation/Approvals	28,560	18%	16	2,040	7.3
Permitting	39,800	25%	5	13,267	9.0
Tender/Preconstruction	6000	4%	2	6000	7.2
Stage Unknown	5,221	3%	4	1,305	9.8
On hold	11,981	7%	8	1,712	12.0
Construction started	36221	22%	5	7244.2	4.0
Completed	0	0%	0	0	0.0
Total	162,198	100%	52	3,772	7.6

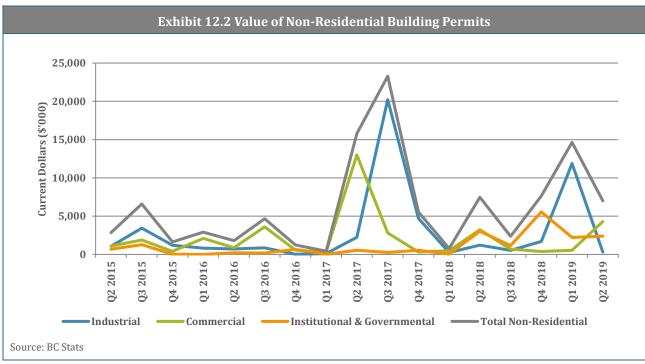
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

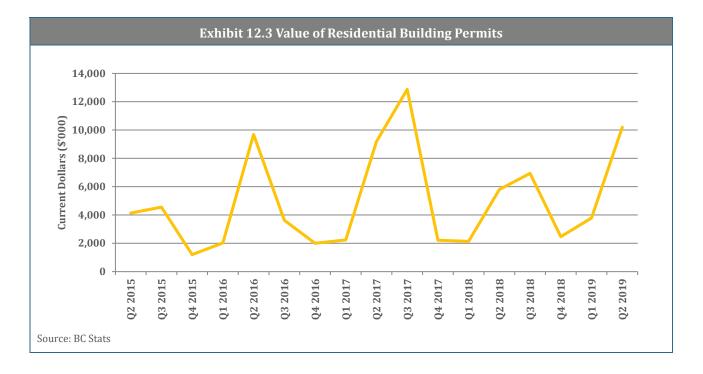


## 12. Nechako Region

#### **Key Economic Indicators**







#### **Trends in Major Projects**

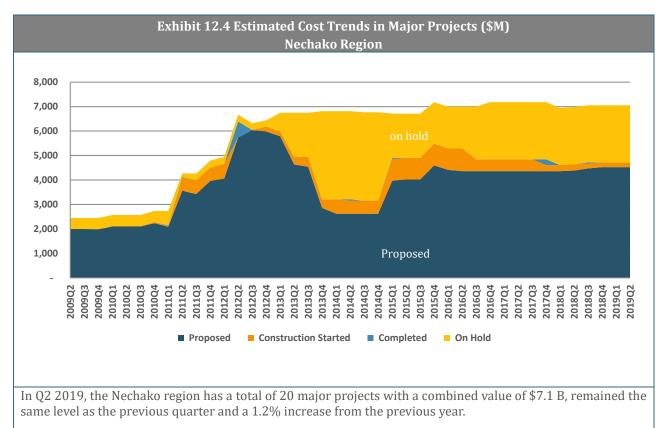
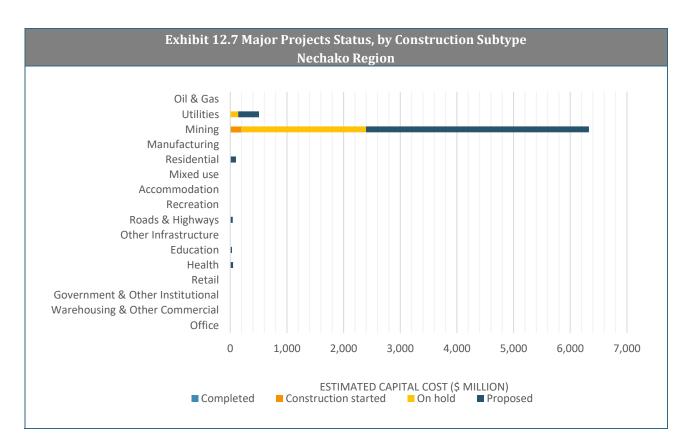


Exhibit 12.5 Estimated Cost Trends in Major Projects, by Project Status (\$M) Nechako Region									
2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year			
4,390	4,472	4,522	4,522	4,522	0.0%	3.0%			
251	201	201	201	201	0.0%	-19.9%			
0	50	0	0	0	0.0%	0.0%			
2,335	2,335	2,335	2,335	2,335	0.0%	0.0%			
6,976	7,058	7,058	7,058	7,058	0.0%	1.2%			
	2018Q2 4,390 251 0 2,335	Nec           2018Q2         2018Q3           4,390         4,472           251         201           0         50           2,335         2,335	Nechako Regio           2018Q2         2018Q3         2018Q4           4,390         4,472         4,522           251         201         201           0         50         0           2,335         2,335         2,335	Nechako Region         2018Q2       2018Q3       2018Q4       2019Q1         4,390       4,472       4,522       4,522         251       201       201       201         0       50       0       0         2,335       2,335       2,335       2,335	Nechako Region         2018Q2       2018Q3       2018Q4       2019Q1       2019Q2         4,390       4,472       4,522       4,522       4,522         251       201       201       201       201         0       50       0       0       0         2,335       2,335       2,335       2,335       2,335	Nechako Region           2018Q2         2018Q3         2018Q4         2019Q1         2019Q2         Change from the previous quarter           4,390         4,472         4,522         4,522         4,522         0.0%           251         201         201         201         201         0.0%           0         50         0         0         0         0.0%           2,335         2,335         2,335         2,335         2,335         2,335			

#### Exhibit 12.6 Summary of Major Projects (by Project Status) Nechako Region

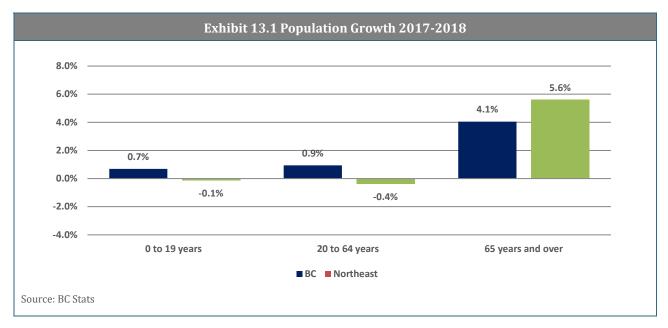
	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	4,522	64%	14	348	9.1
Preliminary/Feasibility	925	13%	3	308	8.7
Consultation/Approvals	2,268	32%	8	284	10.1
Permitting	0	0%	0	0	0.0
Tender/Preconstruction	29	0%	1	29	1.1
Stage Unknown	1,300	18%	2	1300	9.8
On hold	2,335	33%	5	467	13.7
Construction started	201	3%	1	201	7.6
Completed	0	0%	0	0	0.0
Total	7,058	100%	20	371	10.2

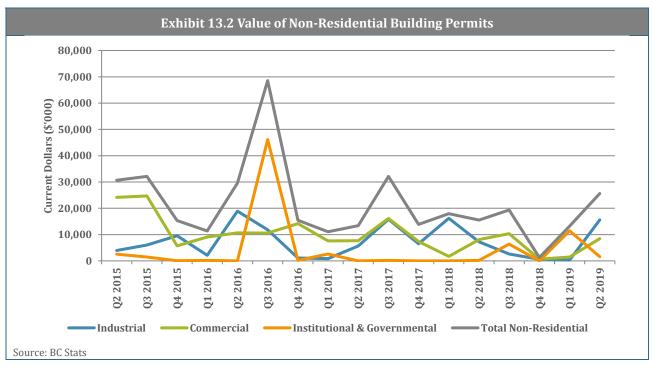
Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.

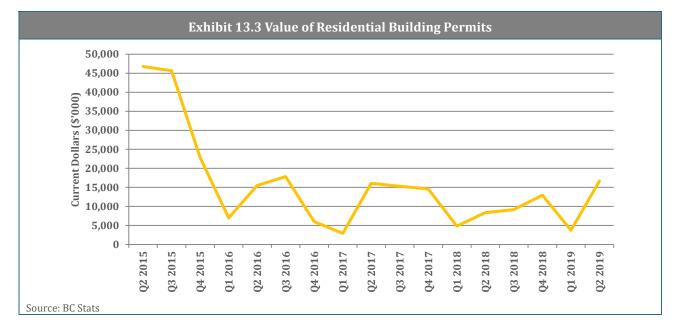


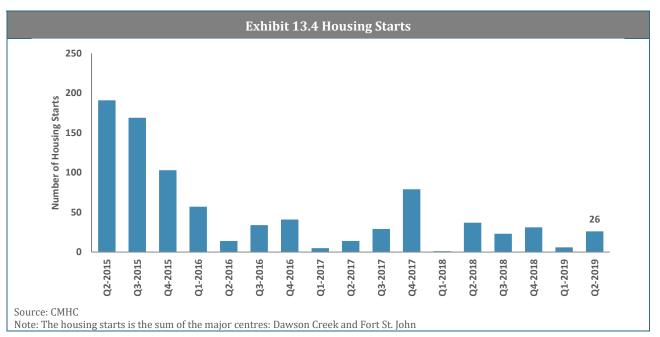
## 13. Northeast Region

#### **Key Economic Indicators**

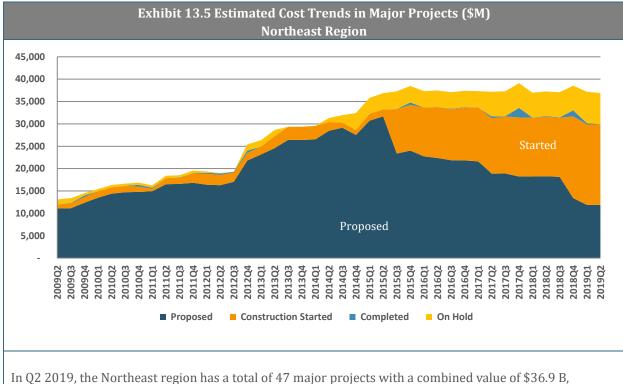








#### **Trends in Major Projects**



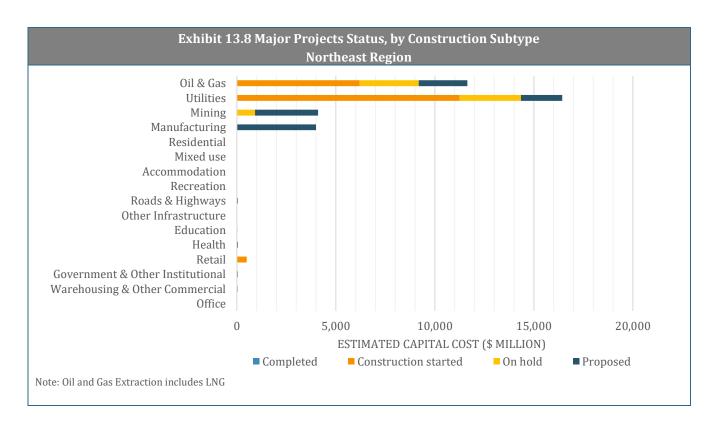
In Q2 2019, the Northeast region has a total of 47 major projects with a combined value of \$36.9 B, representing a 0.8% decrease over the previous quarter and a 0.9% decrease compared to one year earlier.

Status	2018Q2	2018Q3	2018Q4	2019Q1	2019Q2	Change from the previous quarter	Change from the previous year
Proposed	18,292	18,140	13,402	11,887	11,887	0.0%	-35.0%
Construction started	13,281	13,247	18,279	18,009	18,009	0.0%	35.6%
Completed	170	61	1369	290	0	0.0%	0.0%
On hold	5,501	5,626	5,501	7,001	7,001	0.0%	27.3%
Grand Total	37,244	37,074	38,551	37,187	36,897	-0.8%	-0.9%

#### Exhibit 13.7 Summary of Major Projects (by Project Status) Northeast Region

		Northeast K			
	Estimated Capital Cost (\$ million)	Percentage of Total	Number of Projects	Average Project Value (\$ million)	Average Year in Inventory
Proposed	11,887	32%	27	517	6.5
Preliminary/Feasibility	100	0%	2	50	1.2
Consultation/Approvals	7,707	21%	18	482	7.8
Permitting	4,000	11%	4	2000	3.8
Tender/Preconstruction	65	0%	2	33	4.0
Stage Unknown	15	0%	1	15	8.6
On hold	7,001	19%	9	778	8.8
Construction started	18,009	49%	11	1637	4.6
Completed	0	0%	0	0	0.0
Total	36,897	100%	47	858	6.5

Notes: Average project value is the average of those projects for which there is a cost estimate. Average number of years in inventory is the average time span between the entry of the projects in the MPI and the current period.



# Appendices

	New Proposed	Projects (April - June 2019)	
Region	Municipality	Project	Estimated Cost (\$ million)
	Langford	West Langford Elementary and Middle School	89
	Victoria	Victoria High School Upgrades	80
1. Vancouver Island/Coast	VICIONA	The Haro Condominiums	n/a
	Alberni	Ucluelet Secondary School	33
	Nanaimo- Ladysmith	Hammond Bay Elementary	16
	Abbotsford	The News Urban Homes	35
	Burnaby	South Burnaby Arena	45
	Burnaby	Western Canada Tennis Centre	30
	Delta	SCM Grinding Facility	142
	Mission	Wren = Raven Condominiums	30
	Richmond	Galleria Condominiums	10
		UBC - Nursing and Kinesiology Building	13
		UBC - Mathematics Building Replacement	118
2. Mainland/Southwest		Affordable Housing Development	4
		Condominium Development - 1298 East Hastings Street	3
	Vancouver	Union Gospel Mission Women's Centre	3
		Condominium Development	2
		Robson & Cardero Condominium	2
		Condominium Development - 1967 East Hastings	2
		Dunbar Ryerson United Church Redevelopment	2
3. Thompson-Okanagan	Kelowna	UBC Okanagan - Interdisciplinary Collaboration & Innovation Building	13
5. mompson-Okanagan	Kelowila	UBC Okanagan - Industrial Scale Engineering Laboratory Expansion	n/a
4. Kootenay	Cranbrook	Student Housing	13
5. Cariboo	Quesnel	GR Baker Memorial Hospital Upgrades	2
Grand Total			1,24

Region	Municipality	Project	Completion Date	Estimated Cost (\$ million)
L. Vancouver	Caaniah	Townlow Lodge Dedevelopment	2020 02	10
sland/Coast	Saanich	Townley Lodge Redevelopment Court Condominium	2020-Q3 2020-Q3	18 25
	Abbotsford		2020-Q3	Ζ.
	Abbotsioiu	Mount Lehman Substation Expansion Project	2022-Q2	59
		Condominium Development	2022 Q2	28
		Gilmore Place Mixed-Use		20
	Burnaby	Development	2022-Q4	10
	Darnaby	Akimbo Condominium Tower	2021-Q4	3!
		SFU - Stadium	2020-Q3	2
		Irvine Elementary School		
	Coquitlam	Replacement	2020-Q4	2
		Annacis Island Wastewater Treatment		
	Delta	Plant Upgrades	2020-Q2	55
		The Wesley Lowrise Condominium	2020-Q3	2
	Langley	Westbrooke at Willoughby	2020-Q2	2
		Latimer Heights Community	2021-Q4	5
2. Mainland/Southwest	New Westminster	618 Carnarvon Condominium	2021-Q4	4
	North	Park West at Lions Gate Condominiums	2021-Q3	4
	Vancouver	Crest by Adera	2020-Q4	2
		Capilano Substation Upgrade Project	2024-Q2	8
	Squamish	Vantage Condominiums	2020-Q1	2
		Grandview Heights Secondary	2021-Q3	9
		Spectator Arena	2020-Q1	5
	Surrey	Douglas Area Elementary	2021-Q1	3
	50	Aloha Estates	2020-Q3	2
		Avani Centre Condominium	2021-Q2	3
		Condominium Development - 1335 Howe Street	2020-Q4	4
	Vancouver	Avenue One Condominiums	2020-Q4	4
	Vancouver	Fraser Commons at Marine	2021-Q2	5
		Gateway (Park Royal) Condominiums	2021 Q2 2020-Q4	4
		UBC Okanagan - Skeena Residence	2020-Q3	2
3. Thompson-Okanagan	Kelowna	UBC Okanagan - Nechako Residence	2021-Q2	5
	Revelstoke	Highway 1 Illecillewaet Four Laning	2022-Q2	8

	Constru	action Completed (April - June 2019)	
Region	Municipality	Project	Estimated Cost (\$ million)
1. Vancouver	North Saanich	Sandown Commons Retail Centre	40
Island/Coast	Victoria	BlueSky Victoria Condominiums	35
isianu/coast	VICTORIA	Jukebox Lofts	25
	Burnaby	The Seasons Condominium	20
	Langley	Gloucester Industrial Park - Northeast Quadrant	20
	Langley	Willoughby Slope Secondary School	59
	Lillooet	Bridge River 2 Units 5 and 6 Upgrade Project	86
	North Vancouver	City Operations Centre	20
	Port	Ecole Des Pionniers-De-Maillardville Elementary-	
	Coquitlam	Secondary	33
2. Mainland/Southwest	Richmond	Park Estates - Concord Gardens	45
2. Mainanu/Southwest	Kichinona	IntraUrban Rivershore Industrial Park	68
	Sechelt	Narrows Inlet Hydro Project	210
	Squamish	Cheakamus Unit 1 and Unit 2 Generator Replacement	74
		The Jervis Condominium	20
		Ironworks Commercial Development	90
	Vancouver	Cambria Park Condominium Development	20
	vancouver	Shannon Wall Centre Residential Development	80
		UBC - Biological Sciences Building Addition and	
		Renovation	88
3. Thompson-		Interior Heart and Surgical Centre	381
Okanagan	Kelowna	Canyon Falls Middle (formerly Okanagan Mission	
		Junior Middle)	38
Grand Total			1452

Project Value an	d Project Status for	each Industry Sector – (	April - June 20	)19)	
	Proposed	Construction started	Completed	On hold	Total
Oil and Gas	82,265	42,200	-	2,984	127,449
Utilities	12,212	16,240	370	7,094	35,916
Mining	21,063	301	-	13,967	35,331
Manufacturing	36,247	90	-	0	36,337
Residential	12,894	22,474	245	224	35,837
Mixed Use	5,336	11,163	-	1,000	17,499
Accommodation	7,878	4,424	-	1,356	13,658
Recreation	6,466	4,030	-	1,125	11,621
Roads & Highways	5,884	2,529	-	60	8,473
Other Infrastructure	4,750	2,963	-	0	7,713
Education	4,339	1,422	218	0	5,979
Health	4,056	2,036	381	0	6,473
Retail	650	2,808	40	0	3,498
<b>Government &amp; Other Institutional</b>	281	1,670	20	0	1,971
Warehousing & Other Commercial	962	705	178	0	1,845
Office	352	110	-	80	542
Total	205,635	115,165	1,452	27,890	350,142

Number of Regional Major Projects Excluding Completed Projects (by Project Category)								
Development Region	Residential/ Commercial	Transportation & Warehousing	Mining, Oil & Gas Extraction	Utilities	Manufacturing	Public Services	Other Services	Total
Vancouver Island/Coast	95	9	4	16	0	17	8	149
Mainland/Southwest	357	41	4	34	4	70	15	525
Thompson-Okanagan	55	11	3	19	1	14	5	108
Kootenay	10	1	7	3	0	3	5	29
Cariboo	5	3	6	7	1	3	0	25
North Coast	2	11	22	10	5	1	1	52
Nechako	1	1	12	4	0	2	0	20
Northeast	2	7	15	18	2	3	0	47
Total	526	84	73	111	13	113	34	955

# B.C. GOVERNMENT CONTACT

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