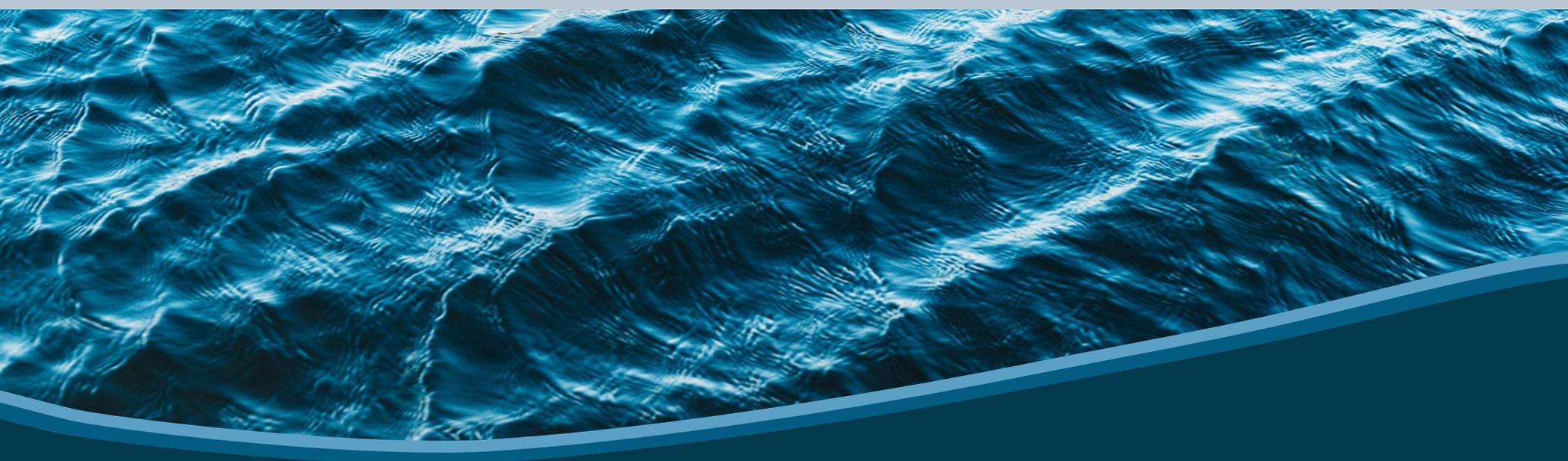


Quarterly Oil and Gas Water Management Summary



Second Quarter 2017 (Apr - Jun)



PURPOSE

This *Quarterly Oil and Gas Water Use Summary* presents short-term water use and water licence data from the Q2 April to June 2017 period.

Previous annual water use reports and quarterly water use summaries are available on the BC Oil and Gas Commission website at www.bcogc.ca.

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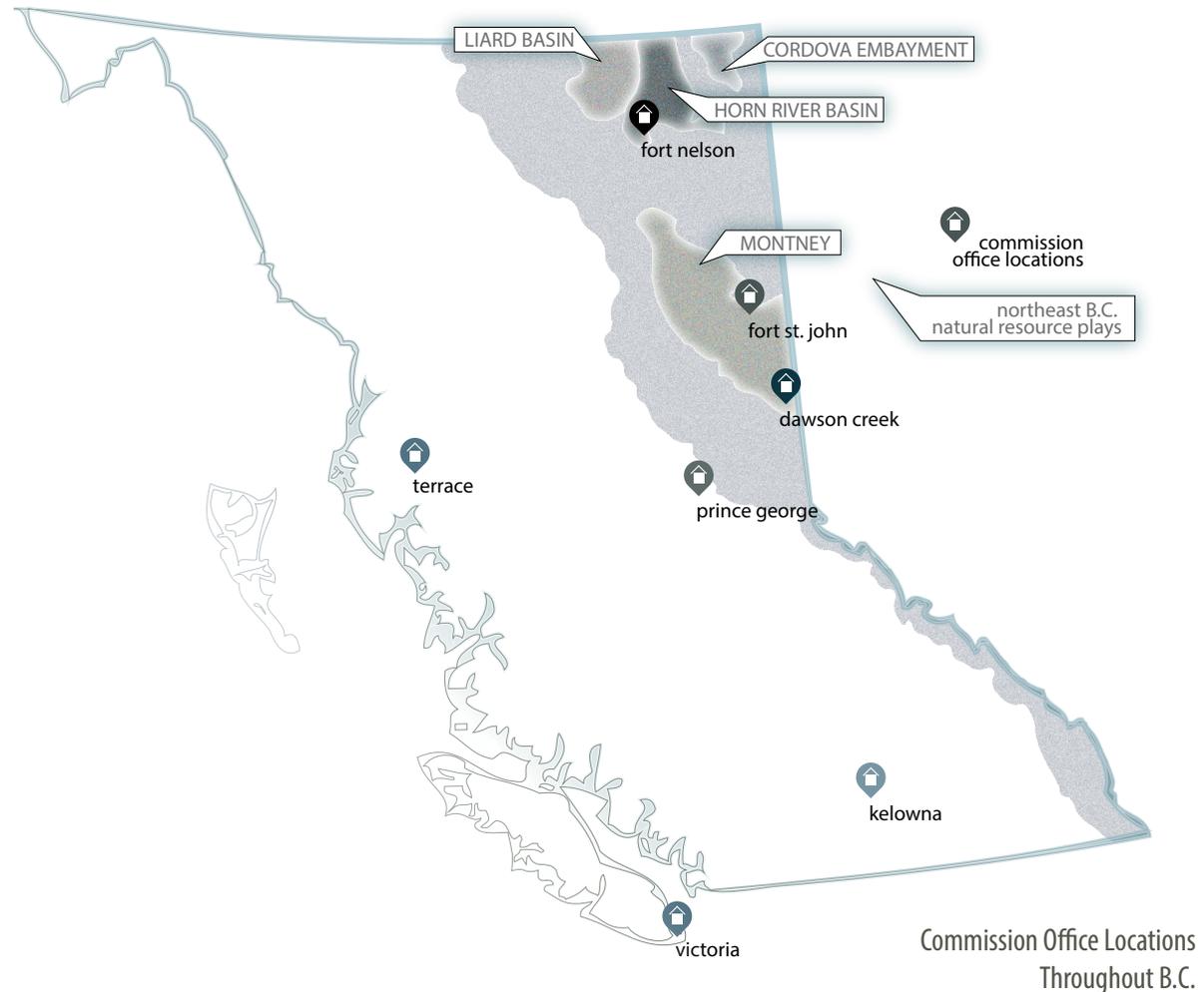
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BC OIL AND GAS COMMISSION

The [BC Oil and Gas Commission](#) (Commission) is the provincial regulatory agency with responsibilities for regulating oil and gas activities in British Columbia, including exploration, development, pipeline transportation and reclamation.

The Commission's core services include reviewing and assessing applications for industry activity, consulting with First Nations, cooperating with partner agencies, and ensuring industry complies with provincial legislation and all regulatory requirements. The public interest is protected by ensuring public safety, respecting those affected by oil and gas activities, conserving the environment, and ensuring equitable participation in production.

The Commission is responsible for reviewing, assessing, and making decisions on water authorizations from both surface and subsurface water sources. The Commission has the expertise and tools to make informed water allocation decisions, and protecting and maintaining environmental and community water needs are its first priorities.



HOW WATER IS USED

Water is used for various purposes in the oil and gas industry.



The largest use of water for oil and gas activities is for hydraulic fracturing.

However, water is used for other purposes, such as:



Seismic or geophysical exploration



Drilling



Machine washing



Dust control



Water floods (to enhance oil recovery)



Ice road freezing



Hydrostatic testing of pipelines

HOW WATER IS ACCESSED

There are different ways the oil and gas industry may access water in British Columbia. Some methods are managed through provincial legislation, including:

- **Water licences** issued under the Water Sustainability Act (WSA) for surface and groundwater. The Commission has staff designated as Regional Water Managers with authority for issuing and administering long-term water licences.
- **Short-term surface water use or diversion approvals** issued under Section 10 of the WSA. Short-term water use is administered by the Commission.
- **Water source wells** authorized by the Commission under the Oil and Gas Activities Act (OGAA). Water source wells are a specific type of well where the water withdrawn is intended for injection into an underground formation to enhance oil or natural gas recovery.
- **Flowback water** that returns to the surface after being injected for hydraulic fracturing.
- **Produced water** that flows to the surface as a by-product of oil and gas production.

The oil and gas industry can access water by means outside of regulatory oversight:



- **Private agreements** can be made with landowners or others who have a source of surface water supply such as a dugout or a groundwater well. In some cases, private agreements may require a Waterworks water licence under the WSA.

LONG-TERM WATER LICENCES AND USE

In the second quarter of 2017, there were 22 active oil and gas related water licences, representing 24 withdrawal locations, held by 11 companies (Table 1).

The total annual licenced water volume was 19,930,492 m³.

A total of 930,760 m³ of licenced water was reported as withdrawn in the first half of the year (Table 1).

A break-down of water licence allocation and use by OGC Water Management Basin is listed in Table 4.

TABLE 1 - SUMMARY OF WATER LICENCE AND USE FOR OIL AND GAS ACTIVITIES FROM JANUARY TO JUNE 2017

		Q1	Q2
WATER LICENCE	Companies with Active Water Licences	11	11
	Active Water Licences	22	22
	Licensed Withdrawal Locations	24	24
	Annual Volume Available for Use for Water Licences (m ³)	19,930,492	19,930,492
	Cumulative Volume Reported Used in 2016 (m ³)	531,420	930,760

TABLE 2: OIL AND GAS RELATED WATER LICENCES THAT WITHDREW WATER FROM APRIL TO JUNE 2017

LICENCE #	LICENCEE	SOURCE	OGC WATER MANAGEMENT BASIN	ANNUAL APPROVAL (m ³ /YR)	Q2 WATER USE (m ³ /YR)
C112155	Whitecap Resources Inc.	Peace River	Lower Peace River	1,825,000	167,871
C132688	Canadian Natural Resources Limited	Charlie Lake	Lower Beatton River	394,000	11,689
C133155	Canbriam Energy Inc.	Williston Lake	Peace Arm	3,650,000	16,445
C126568	Progress Energy Canada Ltd.	Williston Lake	Peace Arm	3,650,000	28,466
C133847	Progress Energy Canada Ltd.	Choplin Creek and Inga Lake	Cameron River	3,687	480
C133150	Black Swan Energy Ltd.	Beatton River	Upper Beatton River	390,000	174,389

SHORT-TERM WATER APPROVAL AND USE

During April to June of 2017, there were a total of 232 short-term water use approvals in place, representing 720 withdrawal locations, held by 42 companies (Table 3).

The total water volume associated with short-term approvals that were active on the last day of the quarter was 16,208,738 m³.

A total of 705,171 m³ was reported as withdrawn by oil and gas operators during the first six months of 2017 (Table 3).

A break-down of short-term water approval and use by OGC Water Management Basin is listed in Table 4.

TABLE 3 - SUMMARY OF SHORT-TERM APPROVAL AND USE FOR OIL AND GAS ACTIVITIES FROM JANUARY TO JUNE 2017

		Q1	Q2
SHORT-TERM	Companies with Active Approvals	44	42
	Active Approvals	198	232
	Approved Withdrawal locations	763	720
	Volume Available for Use (m ³)	13,040,214	16,208,738
	Cumulative Volume Reported Withdrawn (m ³)	282,133	705,171



WATER SUSTAINABILITY ACT

The Water Sustainability Act (WSA) came into effect on Feb. 29, 2016, resulting in changes to surface water and groundwater allocation processes by the Commission. With the implementation of the WSA, the following regulations were created or revised and brought into force:

- Water Sustainability Regulation (replaces Water Regulation).
- Groundwater Protection Regulation (revised).
- Dam Safety Regulation (revised).
- Fees, Rentals and Charge Tariff Regulation (new).

The WSA modernizes the language of the Water Act and introduces a number of significant policy changes. Examples of key items that affect oil and gas activities include, but are not limited to:

- Water in a stream, and the percolation and flow of groundwater, are vested to the Crown.
- The regulatory scheme for the diversion and use of stream water is maintained and applied to both stream water and aquifer water.
- The rights of prior appropriation are retained – First In Time, First In Right (FITFIR).
- The consideration of the environmental flow needs of a stream in licensing decisions is mandated for all water allocation decisions related

to streams, and to aquifers “reasonably likely” of being hydraulically connected to a stream.

- Explicit notification, objection and appeal rights for short-term water use approvals and changes in and about a stream are specified (appeals are to the Environmental Appeal Board).
- Deep groundwater is exempted from the requirement for a water licence.
- New powers are created to be applied when streams are at risk of falling or have fallen below their critical environmental flow thresholds, to modify the existing precedence of water use for the purpose of protecting the aquatic ecosystem of streams and aquifers

and essential domestic uses (i.e., FITFIR can be overridden).

- Authority is provided to statutory decision makers to require environmental mitigation or offsetting when the diversion and use of water, or changes in and about a stream, are likely to have a significant adverse impact on the water quality, water quantity or aquatic ecosystem of a stream or aquifer.

As there are significant changes resulting from the implementation of the WSA, operators are strongly encouraged to review the document [Water Sustainability Act Applications Support for Operators](#). This supplemental outlines material changes to application manuals,



processes and fees, short-term water use approvals, water licensing, and the aforementioned regulations.

The WSA and its regulations may be viewed online:

[Water Sustainability Act](#)

[Water Sustainability Regulation](#)

[Water Sustainability Fees, Rentals and Charges Tariff Regulation](#)

[Groundwater Protection Regulation](#)

[Dam Safety Regulation](#)

WATER LICENCE APPLICATIONS

Water Licence Application

New Water Licence Application - Surface Water

New Water Licence Application - Groundwater

Existing Use Groundwater licence application

Abandonment / Amendments (Changes) to an existing Water Licence

Abandonment

Apportionment

Change of Purpose

Change of Works

Provide Additional Information

Provide Additional Information for your Application

Administration of Surface Water Rights

Licence Transfer of Ownership or Name Change

Abandon Application

Abandon Your Application

Applications, abandonments, and amendments for water licences are now submitted through an online form at the following web address:

www.bcogc.ca/public-zone/water-information/water-licences



TABLE 4 - SUMMARY OF WATER ALLOCATION AND USE FOR OIL AND GAS ACTIVITIES IN 2017, ORGANIZED BY OGC WATER MANAGEMENT BASIN (Page 1 of 4)

MAJOR and Sub-Basin Name	SHORT-TERM WATER USE APPROVALS - BC OIL AND GAS COMMISSION					OIL AND GAS RELATED WATER LICENCES					
	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m ³) FOR LOCATIONS ACTIVE ON 6/30/2017	TOTAL VOLUME APPROVED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2017 (m ³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m ³)	TOTAL VOLUME LICENCED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2017 (m ³)	TOTAL VOLUME WITHDRAWN as % of MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m ³)
BEATTON RIVER (sub-basin of Peace River)											
Upper Beatton River	14	1,033,170	0.207%	77,815	0.016%	5	803,962	0.161%	174,389	0.035%	499,408,440
Middle Beatton River	26	307,650	0.123%	21,984	0.009%	0					249,152,995
Middle Beatton Total (incl. Upper Beatton)	40	1,340,820	0.179%	99,799	0.013%	5	803,962	0.107%	174,389	0.023%	748,561,435
Milligan Creek	24	367,775	0.192%	122	0.000%	0					191,536,686
Blueberry River	48	988,097	0.337%	29,821	0.010%	0					293,278,540
Doig River	6	13,732	0.004%	2,384	0.001%	0					323,069,523
Lower Beatton River	19	102,566	0.074%	13,397	0.010%	1	394,000	0.285%	45,920	0.033%	138,262,629
BEATTON TOTAL	137	2,812,990	0.166%	145,523	0.009%	6	1,197,962	0.071%	220,309	0.013%	1,694,708,813
HALFWAY RIVER (sub-basin of Peace River)											
Chowade River	0					0					327,027,527
Upper Halfway River	4	32,550	0.004%	0	0.000%	0					795,962,409
Upper Halfway Total (includes Chowade)	4	32,550	0.003%	0	0.000%	0	0	0.000%	0	0.000%	1,122,989,936
Graham River	2	6,300	0.001%	561	0.000%	0					860,627,172
Cameron River	27	1,103,257	0.493%	56,252	0.025%	1	3,687	0.002%	480	0.000%	223,679,567
Lower Halfway River	13	616,961	0.407%	697	0.000%	0					151,526,991
HALFWAY TOTAL	46	1,759,068	0.075%	57,510	0.002%	1	3,687	0.000%	0	0.000%	2,358,823,666
MOBERLY RIVER (sub-basin of Peace River)											
Moberly River	0					0					391,714,995
MOBERLY TOTAL	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	391,714,995
PINE RIVER (sub-basin of Peace River)											
Burnt River	0					0					737,930,022
Sukunka River	3	30,000	0.003%	0	0.000%	0					1,047,282,572
Sukunka River Total (includes Burnt)	3	30,000	0.002%	0	0.000%	0	0	0.000%	0	0.000%	1,785,212,594
Upper Pine River	2	3,800	0.000%	680	0.000%	0					1,466,884,035
Murray River	4	30,096	0.001%	210	0.000%	1	365,000	0.014%	0	0.000%	2,698,285,017
Lower Pine River	26	307,076	0.223%	21,656	0.016%	1	650,000	0.472%	0	0.000%	137,619,889
PINE TOTAL	35	370,972	0.019%	22,546	0.000%	2	1,015,000	0.017%	0	0.000%	6,088,001,535

SHORT-TERM WATER USE APPROVALS - BC OIL AND GAS COMMISSION

OIL AND GAS RELATED WATER LICENCES

MAJOR and Sub-Basin Name	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m ³) FOR LOCATIONS ACTIVE ON 6/30/2017	TOTAL VOLUME APPROVED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2017 (m ³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m ³)	TOTAL VOLUME LICENCED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2017 (m ³)	TOTAL VOLUME WITHDRAWN as % of MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m ³)
KISKATINAW RIVER (sub-basin of Peace River)											
West Kiskatinaw River	0					0					117,515,115
East Kiskatinaw River	1	5,000	0.005%	0	0.000%	0					105,452,962
Middle Kiskatinaw River	6	1,233,536	2.189%	6,875	0.012%	0					56,347,972
Middle Kiskatinaw Total (incl. West & East)	7	1,238,836	0.443%	6,875	0.002%	0	0	0.000%	0	0.000%	279,316,049
Lower Kiskatinaw River	13	2,429,467	2.710%	163,754	0.183%	1	20,969	0.023%	0	0.000%	89,659,847
KISKATINAW TOTAL	20	3,668,003	0.994%	170,629	0.046%	1	20,969	0.006%	0	0.000%	368,975,896
PEACE RIVER											
Peace Arm	0					3	9,125,000		207,029		N/A
Upper Peace River	1	780,000	0.002%	0	0.000%	0					36,423,413,429
Lynx Creek	0					0					30,436,635
Farrell Creek	5	82,300	0.090%	400	0.000%	0					91,018,843
Cache Creek	2	12,686	0.017%	0	0.000%	1	185,022	0.248%	0	0.000%	74,603,546
Pouce Coupe River	12	2,257,002	0.883%	122,142	0.048%	2	132,754	0.052%	13,400	0.005%	255,686,202
Lower Peace River	9	1,574,002	1.375%	149,790	0.131%	3	2,298,348	2.008%	489,542	0.428%	114,470,012
PEACE TOTAL (incl. Kisk/Pine/Moberly/Half/Beaton)	267	13,317,023	0.028%	668,540	0.001%	19	13,978,742	0.029%	930,281	0.002%	47,891,853,572
SMOKY RIVER											
Smoky River	8	58,500	0.002%	4	0.000%	3	458,750	0.017%	0	0.000%	2,669,506,123
SMOKY TOTAL	8	58,500	0.002%	4	0.000%	3	458,750	0.017%	0	0.000%	2,669,506,123
MUSKWA RIVER (sub-basin of Fort Nelson River)											
Upper Muskwa River	0					0					1,725,201,511
Middle Muskwa River	0					0					1,973,711,816
Middle Muskwa Total (incl. Upper Muskwa)	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	3,698,913,327
Lower Muskwa River	0					0					646,841,560
MUSKWA TOTAL	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	4,345,754,887
PROPHET RIVER (sub-basin of Fort Nelson River)											
Upper Prophet River	1	2,250	0.000%	0	0.000%	0					1,470,271,289
Middle Prophet River	5	30,700	0.005%	0	0.000%	0					621,428,680
Middle Prophet Total (incl. Upper Prophet)	6	32,950	0.002%	0	0.000%	0	0	0.000%	0	0.000%	2,091,699,969
Lower Prophet River	6	411,510	0.151%	700	0.000%	0					272,262,427
PROPHET TOTAL	12	444,460	0.019%	700	0.000%	0	0	0.000%	0	0.000%	2,363,962,396

SHORT-TERM WATER USE APPROVALS - BC OIL AND GAS COMMISSION

OIL AND GAS RELATED WATER LICENCES

MAJOR and Sub-Basin Name	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m ³) FOR LOCATIONS ACTIVE ON 6/30/2017	TOTAL VOLUME APPROVED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2017 (m ³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m ³)	TOTAL VOLUME LICENCED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2017 (m ³)	TOTAL VOLUME WITHDRAWN as % of MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m ³)
SIKANNI CHIEF RIVER (sub-basin of Fort Nelson River)											
Upper Sikanni Chief River	0					1	2,993,000	0.371%	0	0.000%	807,771,692
Middle Sikanni Chief River	24	387,375	0.041%	1,065	0.000%	0			0		949,755,794
Middle Sikanni Chief Total (incl. Upper Sikanni)	24	387,375	0.022%	1,065	0.000%	1	2,993,000	0.170%	0	0.000%	1,757,527,486
Lower Sikanni Chief	4	9,200	0.001%	340	0.000%	0			0		875,678,142
SIKANNI CHIEF TOTAL	28	396,575	0.015%	1,405	0.000%	1	2,993,000	0.114%	0	0.000%	2,633,205,628
FORT NELSON RIVER											
Kahntah River	14	87,400	0.022%	0	0.000%	0			0		400,582,903
Fontas River	0					0			0		591,531,903
Fontas Total (includes Kahntah)	14	87,400	0.009%	0	0.000%	0	0	0.000%	0	0.000%	992,114,806
Klua Creek	0					0			0		402,135,448
Upper Fort Nelson River	1	20,000	0.007%	0	0.000%	0			0		276,181,026
Upper Fort Nelson Total (incl. Sikanni Chief Total, Kahntah, Fontas, Klua)	43	503,975	0.012%	1,405	0.000%	1	2,993,000	0.070%	0	0.000%	4,303,636,908
Snake River	0					0			0		310,763,522
Sahtaneh River	11	100,200	0.021%	0	0.000%	0			0		474,904,729
Middle Fort Nelson River	8	47,825	0.009%	7,666	0.001%	0			0		515,348,901
Middle Ft Nelson Total (incl. Upper Ft. Nelson total, Muskwa Total, Prophet Total, Snake, Sahtaneh)	74	1,096,460	0.009%	9,771	0.000%	1	2,993,000	0.024%	0	0.000%	12,314,371,343
Kiwigana River	12	44,000	0.010%	490	0.000%	0			0		441,657,543
Lower Fort Nelson River	5	22,000	0.007%	0	0.000%	0			0		312,768,938
FORT NELSON TOTAL	91	1,162,460	0.009%	10,261	0.000%	1	2,993,000	0.023%	0	0.000%	13,068,797,824
LIARD RIVER											
Muncho River	0					0			0		551,551,360
Upper Liard River	0					0			0		33,125,817,465
Upper Liard Total (incl. Muncho)	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	33,677,368,825
Grayling River	0					0			0		630,833,914
Upper Toad River	0					0			0		1,521,055,576
Racing River	0					0			0		1,488,336,681
Lower Toad River	0					0			0		419,472,722
Beaver River	0					0			0		10,862,659,426
Middle Liard River	0					0			0		463,652,312

SHORT-TERM WATER USE APPROVALS - BC OIL AND GAS COMMISSION

OIL AND GAS RELATED WATER LICENCES

MAJOR and Sub-Basin Name	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m ³) FOR LOCATIONS ACTIVE ON 6/30/2017	TOTAL VOLUME APPROVED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2017 (m ³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m ³)	TOTAL VOLUME LICENCED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2017 (m ³)	TOTAL VOLUME WITHDRAWN as % of MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m ³)
LIARD RIVER con't											
Middle Liard Total (incl. Upper Liard Total, Grayling, Upper Toad, Racing, Lower Toad, Beaver)	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	49,063,379,456
Capot-Blanc Creek	4	40,000	0.022%	0	0.000%	0					183,879,851
Dunedin River	1	500	0.000%	0	0.000%	0					820,464,167
Lower Liard River	8	72,610	0.006%	0	0.000%	0					1,236,634,664
LIARD TOTAL (incl. Fort Nelson)	104	1,275,570	0.002%	10,261	0.000%	1	2,993,000	0.005%	0	0.000%	64,373,155,962
PETITOT RIVER											
Sahdoanah River	46	43,380	0.017%	5,067	0.002%	0					252,625,362
Upper Petitot River	62	88,085	0.006%	1,248	0.000%	0					1,476,579,488
Tsea River	51	59,405	0.014%	5,476	0.001%	1	2,500,000	0.576%	0	0.000%	434,062,484
Middle Petitot River	24	128,825	0.018%	954	0.000%	0					698,562,753
Middle Petitot Total (incl. Sahdoanah, Upper Petitot, Tsea)	183	319,695	0.011%	12,745	0.000%	1	2,500,000	0.087%	0	0.000%	2,861,830,087
Lower Petitot River	33	110,800	0.012%	2,180	0.000%	0					904,314,069
PETITOT TOTAL	216	430,495	0.011%	14,925	0.000%	1	2,500,000	0.066%	0	0.000%	3,766,144,156
HAY RIVER											
Upper Kotcho River	3	5,500	0.002%	0	0.000%	0					311,519,217
Kyklo River	2	13,000	0.009%	0	0.000%	0					145,897,691
Shekilie River	28	181,600	0.040%	0	0.000%	0					450,747,494
Lower Kotcho River	2	7,500	0.002%	3,211	0.001%	0					311,519,217
Lower Kotcho Total (includes Upper Kotcho, Kyklo, Shekilie)	35	207,600	0.017%	3,211	0.000%	0	0	0.000%	0	0.000%	1,219,683,619
Hay River	30	224,200	0.042%	1,683	0.000%	0					538,672,352
HAY TOTAL	65	431,800	0.025%	4,894	0.000%	0	0	0.000%	0	0.000%	1,758,355,971
CHINCHAGA RIVER											
Chinchaga River	30	109,097	0.100%	5,893	0.005%	0					109,492,680
CHINCHAGA TOTAL	30	109,097	0.100%	5,893	0.005%	0	0	0.000%	0	0.000%	109,492,680
OTHER (outside Northeast B.C.)	30	586,253		654		0					N/A
GRAND TOTAL	720	16,208,738	0.013%	705,171	0.001%	24	19,930,492	0.017%	930,760	0.001%	120,568,508,464



Previous annual water reports and quarterly updates
are available on the Commission's website at:
<http://www.bcogc.ca/public-zone/water-information>

For specific questions or enquiries
regarding this data, please contact:
OGC.Communications@bcogc.ca
