



# Quarterly Oil and Gas Water Management Summary

Apr-June (Q2) 2023

**BCER**  
BRITISH COLUMBIA ENERGY REGULATOR





This Quarterly Water Management Summary presents short-term water use and water licence data from the April to June 2023 period.

Previous annual water use reports and quarterly water management summaries are available at [bc-er.ca](https://bc-er.ca).

# Contents

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- 3 Vision, Mission and Values**
- 4 Role of the BC Energy Regulator (BCER)**
- 6 How Water is Used and Accessed**
- 7 Oil and Gas Activity Water Use**
  - 7 Table 1: Short-term approvals and use in 2023**
  - 7 Table 2: Long-term water licences and use in 2023**
  - 8 Table 3: Oil and gas related water licences that withdrew water from April to June 2023**
- 10 Table 4: Summary of water allocation and use for oil and gas activities in 2023, organized by BCER Water Management Basin.**

## Vision, Mission and Values

### Vision

A resilient energy future where B.C.'s energy resource activities are safe, environmentally leading and socially responsible.

### Mission

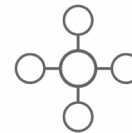
We regulate the life cycle of energy resource activities in B.C., from site planning to restoration, ensuring activities are undertaken in a manner that:



Protects public safety and the environment



Supports reconciliation with Indigenous peoples and the transition to low-carbon energy



Conserves energy resources



Fosters a sound economy and social well-being

### Values

**Respect** is our commitment to listen, accept and value diverse perspectives.

**Integrity** is our commitment to the principles of fairness, trust and accountability.

**Transparency** is our commitment to be open and provide clear information on decisions, operations and actions.

**Innovation** is our commitment to learn, adapt, act and grow.

**Responsiveness** is our commitment to listening and timely and meaningful action.

# Role of the BC Energy Regulator (BCER)


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The British Columbia Energy Regulator oversees the full life cycle of energy resource activities in B.C., from site planning to restoration. We ensure activities are undertaken in a manner that protects public safety and the environment, supports reconciliation with Indigenous peoples, conserves energy resources and fosters a sound economy and social well-being. Our role includes the management of natural gas, hydrogen, ammonia, methanol, oil and aspects of geothermal resources, with an expanded role in carbon capture and storage (CCS).

We regulate energy resources through the [Energy Resource Activities Act \(ERAA\)](#) and other associated laws related to heritage conservation, roads, land and water use, forestry, and other natural resources. We work closely with [land owners](#), [rights holders](#), local government, industry, academia and other regulators to gather skills, knowledge and multiple perspectives to evolve our regulatory model.

We respect Indigenous values and seek learning opportunities as we co-develop new processes that we put into practice in all facets of our business and decision-making. We are focused on [advancing reconciliation and building trust](#) and apply this in our work with First Nations and Indigenous communities as partners in building B.C.'s energy resource future.

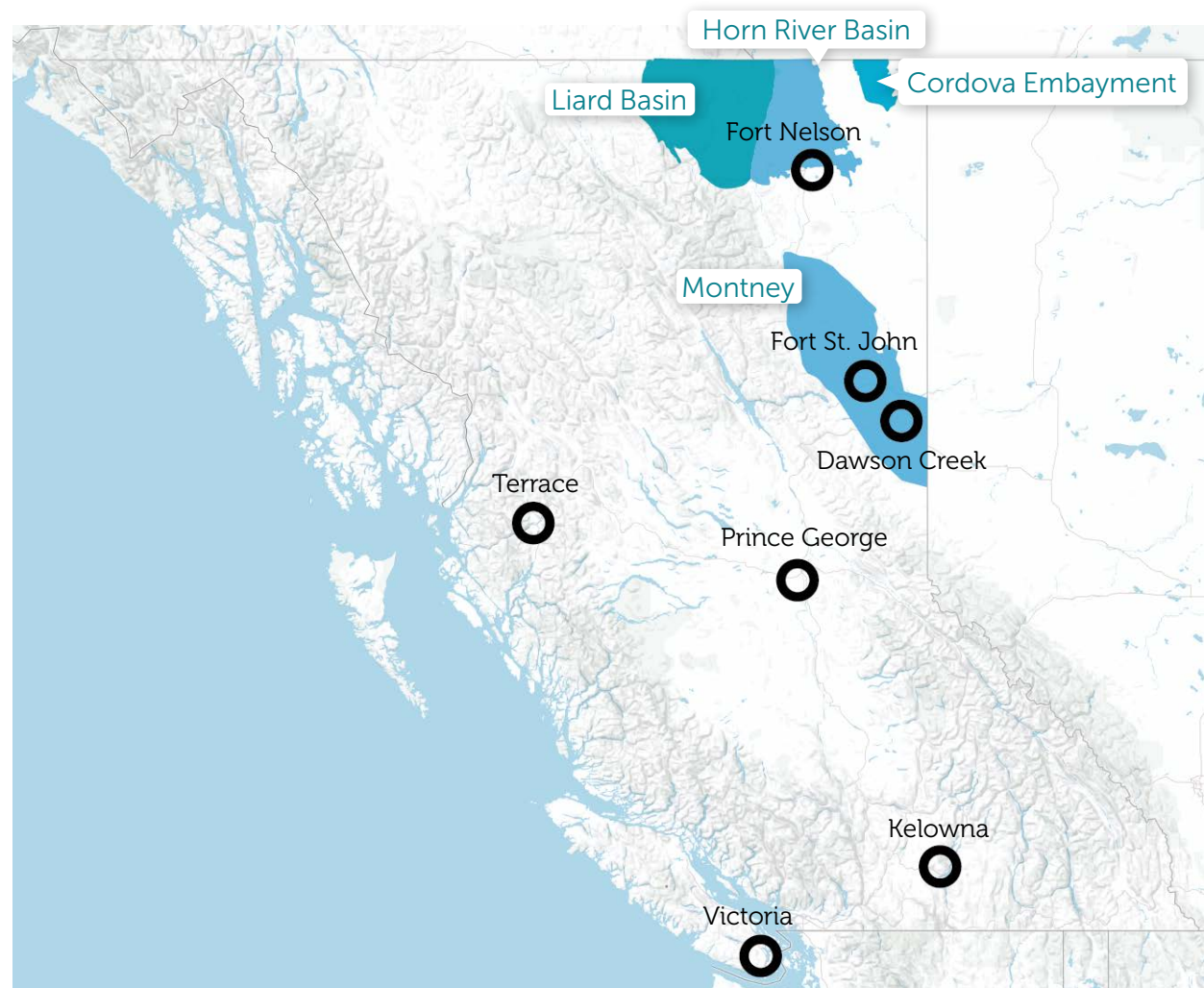
We currently have over 280 employees operating out of seven locations: Fort Nelson, Fort St. John, Dawson Creek, Terrace, Prince George, Kelowna and Victoria. The largest number of employees are in the Fort St. John office.



With 25 years' dedicated service, we're committed to ensuring safe and responsible energy resource management for British Columbia.



## BCER Office Locations Throughout B.C.



We acknowledge and respect the many Indigenous Territories and Treaty areas, each with unique cultures, languages, legal traditions and relationships to the land and water, which the BCER's work spans. We also respectfully acknowledge the Métis and Inuit people living across B.C.

# How Water is Used and Accessed

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## Water Use

Water is used for various purposes in the oil and gas industry. The largest use of water is for hydraulic fracturing, however, water is used for other purposes, such as:



Seismic or geophysical exploration



Drilling



Machine washing



Dust control



Water floods (enhances oil recovery)



Ice road freezing



Hydrostatic testing of pipelines

## Water Access

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 section 9 of the Water Sustainability Act (WSA) for surface and groundwater. BCER staff designated as Regional Water Managers have the authority to issue and administer 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 BCER.
- **Water source wells** authorized by the BCER under ERAA are wells where water is withdrawn for injection into underground formations 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.

### Industry may also access water by other means:

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



# Oil and Gas Activity Water Use: Short-term Approvals & Long-Term Licences

## Short-Term Water Use

During April to June there were 284 water use approvals in place, representing 640 withdrawal locations, held by 33 companies (Table 1).

The total water volume available for use by short-term approvals active on the last day of June was 22,347,294 m<sup>3</sup>.

A total of 960,922 m<sup>3</sup> was reported as withdrawn in 2023.

**TABLE 1 - SHORT-TERM APPROVALS  
AND USE IN 2023**

	End of Q1	End of Q2
Companies with Active Approvals	32	33
Active Approvals	197	284
Approved Withdrawal Locations	533	640
Volume Available for Use (m <sup>3</sup> )	14,590,176	22,347,294
<b>Cumulative Volume Reported Withdrawn (m<sup>3</sup>)</b>	224,843	960,922

## Long-Term Water Use

During April to June there were 112 active oil and gas related water licences, representing 117 withdrawal locations, held by 33 companies (Table 2).

The total annual volume available for use by water licences was 80,512,905 m<sup>3</sup>.

A total of 2,186,637 m<sup>3</sup> was reported as withdrawn in 2023.

**TABLE 2 - LONG-TERM WATER LICENCES  
AND USE IN 2023**

	End of Q1	End of Q2
Companies with Active Water Licences	33	33
Active Water Licences	111	112
Licensed Withdrawal Locations	116	117
Annual Volume Available for Use (m <sup>3</sup> )	79,016,405	80,512,905
<b>Cumulative Volume Reported Withdrawn (m<sup>3</sup>)</b>	716,604	2,186,637

A break down of short-term approvals and water licence use by BCER Water Management Basin is listed in Table 4 on page 10.  
Total Q2 licenced withdrawal volumes differ by 2 m<sup>3</sup> between Table 2 and 3 due to rounding.

# Oil and Gas Related Water Licences

Table 3: Licences that Withdrew Water from April to June 2023

LICENCE #	LICENCEE	SOURCE	BCER WATER MGMT BASIN	ANNUAL APPROVAL (m <sup>3</sup> /YR)	WATER USE (m <sup>3</sup> )
C112155	Whitecap Resources Inc.	Peace River	Lower Peace River	1,825,000	6,123
C133805	Peace View Hutterian Brethren Church	Dawson Creek Aquifer	Lower Peace River	250,000	640
C133847	Petronas Energy Canada	Unnamed Stream	Cameron River	7,374	1,083
C133853	Petronas Energy Canada	Barker Creek	Middle Sikanni Chief River	7,264	3,216
C133960	Van Airport Fuel Facilities	Fraser River	Outside NEBC	243	61
C134093	Petronas Energy Canada	Grewatsch Creek Tributary	Upper Beatton River	54,368	1,856
C134107	Petronas Energy Canada	Unnamed Stream	Cameron River	57,582	674
C134110	Petronas Energy Canada	Unnamed Stream	Cameron River	79,045	60
C134111	Petronas Energy Canada	Unnamed Stream	Upper Beatton River	49,588	40
C134168	Petronas Energy Canada	Unnamed Creek	Middle Sikanni Chief River	8,199	348
C134283	Ovintiv Canada ULC	Kiskatinaw River	Lower Kiskatinaw River	1,000,000	533,412
C134443	Canadian Natural Resources	Williston Lake	Peace Arm	3,650,000	620
C134447	Murphy Oil Company Ltd.	Kiskatinaw River	Middle Kiskatinaw River	600,000	221,261
C134471	Petronas Energy Canada	Sikanni Chief River	Upper Sikanni Chief	2,993,000	36,904
C500172	Secure Energy Services	Aquifer 634	Lower Peace River	36,500	3,276
C500226	Veresen Energy Pipeline Inc.	Aquifer 621	Smoky River	5,500	1,075
C500334	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	29,161	496
C500341	Petronas Energy Canada	FSJ Aquifer	Cameron River	2,253	100
C500344	Petronas Energy Canada	FSJ Aquifer	Lower Halfway River	16,165	3,305
C500349	Petronas Energy Canada	FSJ Aquifer	Lower Halfway River	10,463	375
C500530	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	83,950	2,752
C500662	ARC Resources Ltd.	Kiskatinaw River	Lower Kiskatinaw River	1,100,000	155,347
C500794	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	6,924	3,717
C501120	Canlin Energy Corp.	FSJ Aquifer	Upper Beatton River	1,825	44
C501270	Black Swan Energy Ltd.	FSJ Aquifer	Upper Beatton River	6,570	350

Continued on next page.



At the end of June, water used by industry by way of licence was a fraction of a per cent (0.002) of the average runoff replenished annually in northeast B.C.

LICENCE #	LICENCEE	SOURCE	BCER WATER MGMT BASIN	ANNUAL APPROVAL (m <sup>3</sup> /YR)	WATER USE (m <sup>3</sup> )
C501477	TAQA North Ltd.	FSJ Aquifer	Middle Beatton River	1,095	45
C501797	Canadian Natural Resources	Aquifer 931	Milligan Creek	23,725	4,944
C501804	T. Hartnell Enterprises Ltd.	Aquifer 633	Lower Kiskatinaw River	250,000	101,342
C501865	Boundry Lake Sand & Gravel	FSJ Aquifer	Lower Peace River	10,950	419
C502277	Peaceland Farm Ltd.	Aquifer 908	Lower Halfway River	360,000	556
C502343	Canadian Natural Resources	Beatton River	Upper Beatton River	250,000	142,795
C502448	Canadian Natural Resources	Dawson Creek Bedrock	Murray River	5,475	114
C502452	Canadian Natural Resources	FSJ Aquifer	Kahntah River	3,650	41
C502455	Canadian Natural Resources	Dawson Creek Aquifer	Smoky River	1,095	218
C502462	Canadian Natural Resources	FSJ Aquifer	Kahntah River	7,300	557
C502467	Canadian Natural Resources	FSJ Aquifer	Upper Beatton River	3,650	24
C502795	Canadian Natural Resources	Aquifer 451	Blueberry River	3,650	275
C502900	Pineview Trucking & Excavating Ltd.	Unconsolidated Aquifer	Outside NEBC	98,550	13,108
C502957	Time Travel Services Ltd.	Aquifer 928	Upper Peace River	10,000	4,542
C503048	Albright Flush Systems	Aquifer 451	Cache Creek	2,920	452
C504235	LNG Canada Development	Kitimat River	Outside NEBC	44,493,500	153,560
C505044	LNG Canada Development	Kitimat River	Outside NEBC	1,496,500	69,898

Apr-Jun (Q2) Total Licenced Water Use: 1,470,031

TABLE 4 - SUMMARY OF WATER ALLOCATION AND USE FOR OIL AND GAS ACTIVITIES IN 2023, ORGANIZED BY BCER WATER MANAGEMENT BASIN (Page 1 of 4)

MAJOR and Sub-Basin Name	OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10					OIL AND GAS RELATED WATER LICENCES - SECTION 9					
	NUMBER OF WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2023 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m³)	TOTAL VOLUME LICENCED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2023 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
BEATTON RIVER (sub-basin of Peace River)											
Upper Beatton River	16	723,648	0.145%	710	0.000%	19	2,355,519	0.472%	161,197	0.032%	499,408,440
Middle Beatton River	21	364,496	0.146%	120	0.000%	1	1,095	0.000%	90	0.000%	249,152,995
Middle Beatton Total (incl. Upper Beatton)	37	1,088,144	0.145%	830	0.000%	20	2,356,614	0.315%	161,287	0.022%	748,561,435
Milligan Creek	4	28,000	0.015%	0	0.000%	6	235,425	0.123%	10,471	0.005%	191,536,686
Blueberry River	21	685,913	0.234%	0	0.000%	5	827,090	0.282%	17,647	0.006%	293,278,540
Doig River	5	35,400	0.011%	5,446	0.002%	1	51,100	0.016%	0	0.000%	323,069,523
Lower Beatton River	3	34,400	0.025%	27,940	0.020%	2	414,730	0.300%	0	0.000%	138,262,629
BEATTON TOTAL	70	1,871,857	0.110%	34,216	0.002%	34	3,884,959	0.229%	189,405	0.011%	1,694,708,813
HALFWAY RIVER (sub-basin of Peace River)											
Chowade River	0					0					327,027,527
Upper Halfway River	0					1	72,000	0.009%	0	0.000%	795,962,409
Upper Halfway Total (includes Chowade)	0	0	0.000%	0	0.000%	1	72,000	0.006%	0	0.000%	1,122,989,936
Graham River	1	2,400	0.000%	0	0.000%	0					860,627,172
Cameron River	20	542,607	0.243%	8,563	0.004%	19	1,111,919	0.497%	60,297	0.027%	223,679,567
Lower Halfway River	4	10,040	0.007%	729	0.000%	9	5,448,688	3.596%	274,633	0.181%	151,526,991
HALFWAY TOTAL	25	555,047	0.024%	9,292	0.000%	29	6,632,607	0.281%	334,930	0.014%	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	3	94,002	0.013%	15,904	0.002%	0					737,930,022
Sukunka River	4	140,000	0.013%	2,476	0.000%	0					1,047,282,572
Sukunka River Total (includes Burnt)	7	234,002	0.013%	18,380	0.001%	0					1,785,212,594
Upper Pine River	0					0					1,466,884,035
Murray River	9	218,052	0.008%	0	0.000%	1	5,475	0.000%	240	0.000%	2,698,285,017
Lower Pine River	30	1,749,618	1.271%	265	0.000%	1	650,000	0.472%	0	0.000%	137,619,889
PINE TOTAL	46	2,201,672	0.036%	18,645	0.000%	2	655,475	0.011%	240	0.000%	6,088,001,535



OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10						OIL AND GAS RELATED WATER LICENCES - SECTION 9					
MAJOR and Sub-Basin Name	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2023 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m³)	TOTAL VOLUME LICENCED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2023 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
KISKATINAW RIVER (sub-basin of Peace River)											
West Kiskatinaw River	0					0					117,515,115
East Kiskatinaw River	0					0					105,452,962
Middle Kiskatinaw River	6	101,392	0.180%	0	0.000%	1	600,000	1.065%	221,261	0.393%	56,347,972
Middle Kiskatinaw Total (incl. West & East)	6	101,392	0.036%	0	0.000%	1	600,000	0.215%	221,261	0.079%	279,316,049
Lower Kiskatinaw River	23	983,297	1.097%	48,698	0.054%	10	3,198,317	3.567%	950,831	1.060%	89,659,847
KISKATINAW TOTAL	29	1,084,689	0.294%	48,698	0.013%	11	3,798,317	1.029%	1,172,092	0.318%	368,975,896
PEACE RIVER											
Peace Arm	0					3	9,125,000	N/A	2,700	N/A	N/A
Upper Peace River	0					1	10,000	0.000%	8,787	0.000%	36,423,413,429
Lynx Creek	0					0					30,436,635
Farrell Creek	0					0					91,018,843
Cache Creek	0					8	677,605	0.908%	14,432	0.019%	74,603,546
Pouce Coupe River	9	292,216	0.114%	113,169	0.044%	4	1,650,200	0.645%	0	0.000%	255,686,202
Lower Peace River	6	423,400	0.370%	6,484	0.006%	8	4,204,919	3.673%	17,701	0.015%	114,470,012
PEACE TOTAL (incl. Kisk/Pine/Moberly/Half/Beatton)	185	6,428,881	0.013%	230,504	0.000%	100	30,639,082	0.064%	1,740,287	0.004%	47,891,853,572
SMOKY RIVER											
Smoky River	0					2	6,595	0.000%	1,485	0.000%	2,669,506,123
SMOKY TOTAL	0					2	6,595	0.000%	1,485	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					3,698,913,327
Lower Muskwa River	0	0	0.000%	0	0.000%	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	0					1	36,593	0.002%	2,894	0.000%	1,470,271,289
Middle Prophet River	2	1,600	0.000%	0	0.000%	0					621,428,680
Middle Prophet Total (incl. Upper Prophet)	2	1,600	0.000%	0	0.000%	1	36,593	0.002%	2,894	0.000%	2,091,699,969
Lower Prophet River	2	10,400	0.004%	357	0.000%	0					272,262,427
PROPHET TOTAL	4	12,000	0.001%	357	0.000%	1	36,593	0.002%	2,894	0.000%	2,363,962,396

OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10

OIL AND GAS RELATED WATER LICENCES - SECTION 9

MAJOR and Sub-Basin Name	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2023 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m³)	TOTAL VOLUME LICENCED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2023 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
SIKANNI CHIEF RIVER (sub-basin of Fort Nelson River)											
Upper Sikanni Chief River	0					3	3,117,689	0.386%	182,872	0.023%	807,771,692
Middle Sikanni Chief River	25	324,043	0.034%	14,993	0.002%	4	29,203	0.003%	4,884	0.001%	949,755,794
Middle Sikanni Chief Total (incl. Upper Sikanni)	25	324,043	0.018%	14,993	0.001%	7	3,146,892	0.179%	187,756	0.011%	1,757,527,486
Lower Sikanni Chief	26	257,992	0.029%	0	0.000%	0					875,678,142
SIKANNI CHIEF TOTAL	51	582,035	0.022%	14,993	0.001%	7	3,146,892	0.120%	187,756	0.007%	2,633,205,628
FORT NELSON RIVER											
Kahntah River	5	20,000	0.005%	0	0.000%	2	10,950	0.003%	1,268	0.000%	400,582,903
Fontas River	1	10,000	0.002%	0	0.000%	0					591,531,903
Fontas Total (includes Kahntah)	6	30,000	0.003%	0	0.000%	2	10,950	0.001%	1,268	0.000%	992,114,806
Klua Creek	0					0					402,135,448
Upper Fort Nelson River	1	4,000	0.001%	0	000.0%	0					276,181,026
Upper Fort Nelson Total (incl. Sikanni Chief Total, Kahntah, Fontas, Klua)	58	628,035	0.015%	14,993	0.000%	9	3,157,842	0.073%	189,024	0.004%	4,303,636,908
Snake River	1	4,000	0.001%	0	0.000%	0					310,763,522
Sahtaneh River	9	34,638	0.007%	1,075	0.000%	0					474,904,729
Middle Fort Nelson River	0					0					515,348,901
Middle Ft Nelson Total (incl. Upper Ft. Nelson total, Muskwa Total, Prophet Total, Snake, Sahtaneh)	72	678,673	0.006%	16,425	0.000%	10	3,194,435	0.026%	191,918	0.002%	12,314,371,343
Kiwigana River	11	731,500	0.166%	1,946	0.000%	0					441,657,543
Lower Fort Nelson River	2	40,000	0.013%	350	0.000%	0					312,768,938
FORT NELSON TOTAL	85	1,450,173	0.011%	18,721	0.000%	10	3,194,435	0.024%	191,918	0.001%	13,068,797,824
LIARD RIVER											
Muncho River	0					0					551,551,360
Upper Liard River	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					630,833,914
Upper Toad River	0					0					1,521,055,576
Racing River	0					0					1,488,336,681
Lower Toad River	0					0					419,472,722
Beaver River	0					0					10,862,659,426
Middle Liard River	0					0					463,652,312



OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10						OIL AND GAS RELATED WATER LICENCES - SECTION 9					
MAJOR and Sub-Basin Name	NUMBER OF WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2023 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m³)	TOTAL VOLUME LICENCED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2023 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
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	1	15,544	0.008%	0	0.000%	0					183,879,851
Dunedin River	0					0					820,464,167
Lower Liard River	5	46,220	0.004%	3,886	0.000%	0					1,236,634,664
LIARD TOTAL (incl. Fort Nelson)	91	1,499,937	0.002%	22,607	0.000%	10	3,194,435	0.005%	191,918	0.000%	64,373,155,962
PETITOT RIVER											
Sahdoanah River	9	34,000	0.013%	4,213	0.002%	0					252,625,362
Upper Petitot River	24	96,000	0.007%	0	0.000%	0					1,476,579,488
Tsea River	3	48,000	0.011%	72	0.000%	0					434,062,484
Middle Petitot River	2	28,000	0.004%	570	0.000%	0					698,562,753
Middle Petitot Total (incl. Sahdoanah, Upper Petitot, Tsea)	38	206,000	0.007%	4,855	0.000%	0	0	0.000%	0	0.000%	2,861,830,087
Lower Petitot River	8	22,000	0.002%	380	0.000%	0					904,314,069
PETITOT TOTAL	46	228,000	0.006%	5,235	0.000%	0	0	0.000%	0	0.000%	3,766,144,156
HAY RIVER											
Upper Kotcho River	2	8,171	0.003%	2,037	0.001%	0					311,519,217
Kyklo River	8	32,720	0.022%	836	0.001%	0					145,897,691
Shekilie River	22	292,400	0.065%	0	0.000%	0					450,747,494
Lower Kotcho River	1	6,000	0.002%	0	0.000%	0					311,519,217
Lower Kotcho Total (includes Upper Kotcho, Kyklo, Shekilie)	33	339,291	0.028%	2,873	0.000%	0	0	0.000%	0	0.000%	1,219,683,619
Hay River	26	194,300	0.036%	11,608	0.002%	0					538,672,352
HAY TOTAL	59	533,591	0.030%	14,481	0.001%	0	0	0.000%	0	0.000%	1,758,355,971
CHINCHAGA RIVER											
Chinchaga River	0					0					109,492,680
CHINCHAGA TOTAL	0					0	0	0.000%	0	0.000%	109,492,680
OTHER (outside Northeast B.C.)	259	13,656,885	N/A	688,095	N/A	5	46,672,793	N/A	252,947	N/A	N/A
GRAND TOTAL	640	22,347,294	0.019%	960,922	0.001%	117	80,512,905	0.067%	2,186,637	0.002%	120,568,508,464

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Annual water reports and quarterly updates are available on the BCER website at <https://www.bc-er.ca/data-reports>.

For questions regarding this report or for digital data files, please contact [Communications@bc-er.ca](mailto:Communications@bc-er.ca).



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