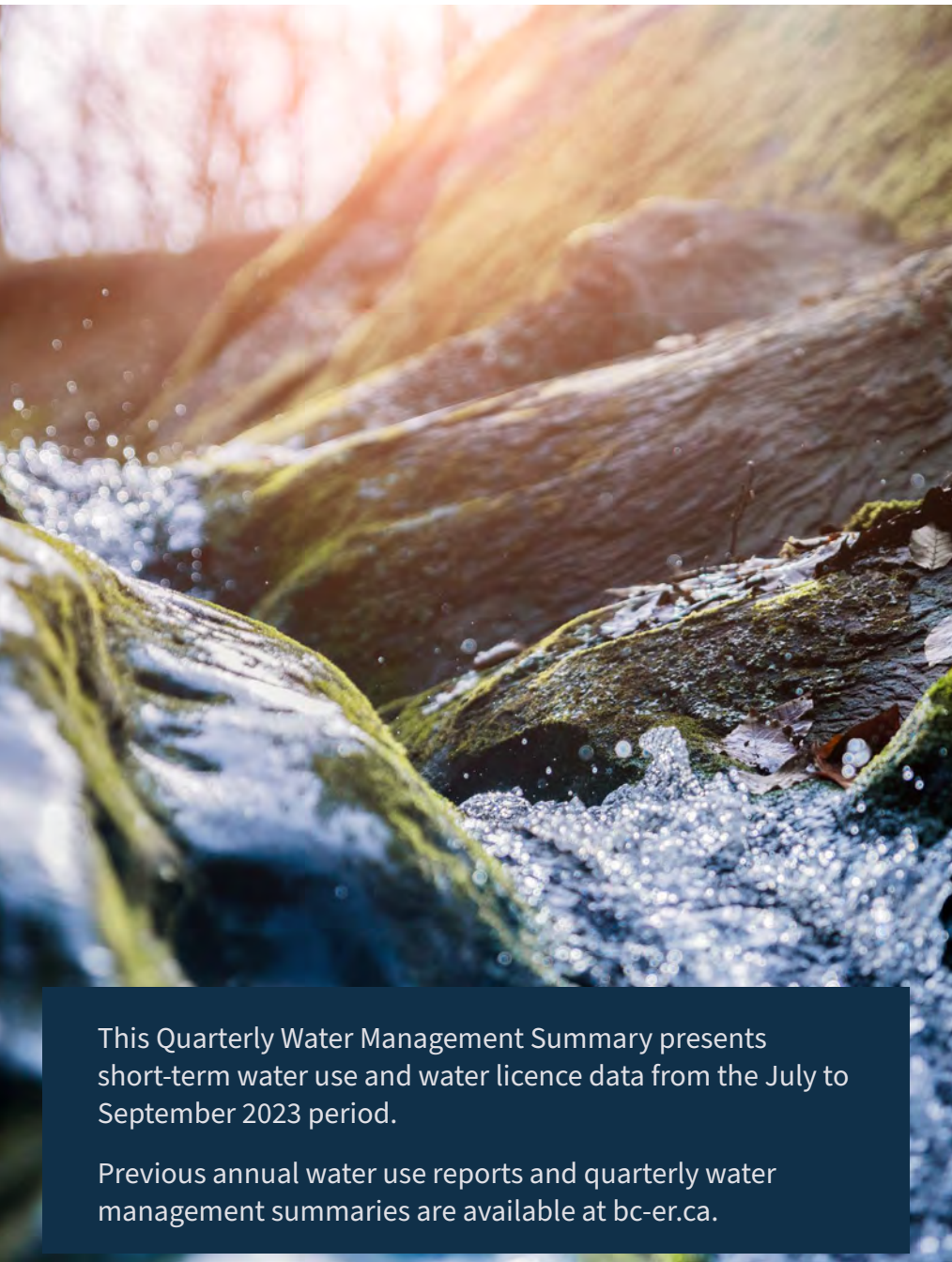




Quarterly Oil and Gas Water Management Summary

Jul-Sept (Q3) 2023

BCER
BRITISH COLUMBIA ENERGY REGULATOR



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

Previous annual water use reports and quarterly water management summaries are available at bc-er.ca.

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Vision, Mission and Values

Vision

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

Mission

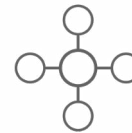
We regulate the life cycle of energy resource activities in B.C., from site planning to restoration, ensuring activities are undertaken in a manner that:



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)

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).

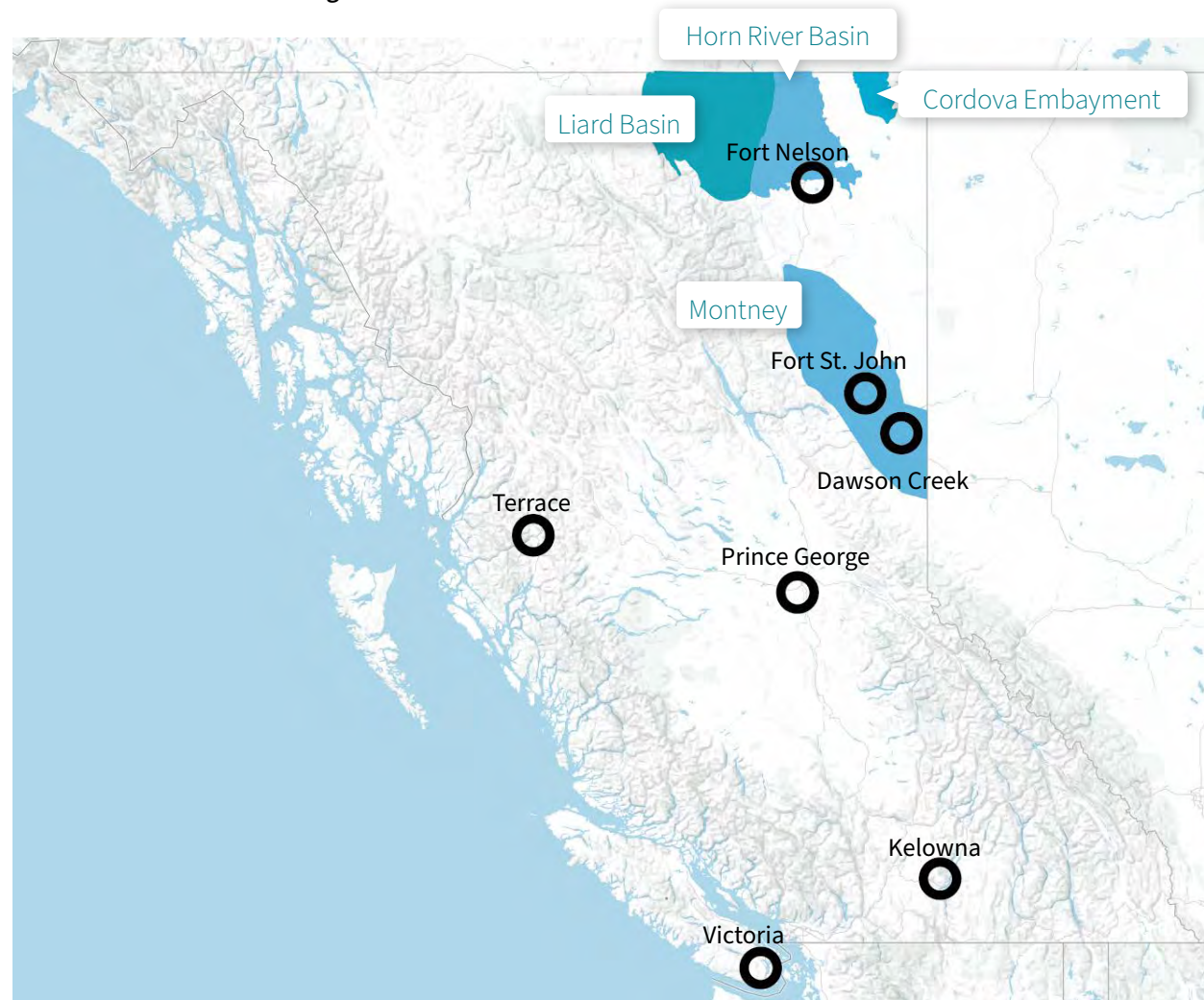
We regulate energy resources through the [Energy Resource Activities Act \(ERAA\)](#) and other associated laws related to heritage conservation, roads, land and water use, forestry, and other natural resources. We work closely with [land owners](#), [rights holders](#), local government, industry, academia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



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

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 July to September there were 324 water use approvals in place, representing 682 withdrawal locations, held by 34 companies (Table 1).

The total water volume available for use by short-term approvals active on the last day of September was 27,414,096 m³.

A total of 1,657,199 m³ was reported as withdrawn in 2023.

TABLE 1 - SHORT-TERM
APPROVALS AND USE IN 2023

	End of Q1	End of Q2	End of Q3
Companies with Active Approvals	32	33	34
Active Approvals	197	284	324
Approved Withdrawal Locations	533	640	682
Volume Available for Use (m ³)	14,590,176	22,347,294	27,414,096
Cumulative Volume Reported Withdrawn (m³)	224,843	960,922	1,657,199

Long-Term Water Use

During July to September there were 114 active oil and gas related water licences, representing 128 withdrawal locations, held by 34 companies (Table 2).

The total annual volume available for use by water licences was 80,755,180 m³.

A total of 3,483,544 m³ was reported as withdrawn in 2023.

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

	End of Q1	End of Q2	End of Q3
Companies with Active Water Licences	33	33	34
Active Water Licences	111	112	114
Licensed Withdrawal Locations	116	117	128
Annual Volume Available for Use (m ³)	79,016,405	80,512,905	80,755,180
Cumulative Volume Reported Withdrawn (m³)	716,604	2,186,637	3,483,544

A break down of short-term approvals and water licence use by BCER Water Management Basin is listed in Table 4 on page 10.

Oil and Gas Related Water Licences

Table 3: Licences that Withdrew Water from July to September 2023

LICENCE #	LICENCEE	SOURCE	BCER WATER MGMT BASIN	ANNUAL APPROVAL (m³/YR)	WATER USE (m³)
C112155	Whitecap Resources Inc.	Peace River	Lower Peace River	1,825,000	144,972
C133776	Petronas Energy Canada	Unnamed Stream	Cameron River	69,821	160
C133805	Peace View Hutterian Brethren Church	Dawson Creek Aquifer	Lower Peace River	250,000	143,272
C133847	Petronas Energy Canada	Unnamed Stream	Cameron River	7,374	427
C133853	Petronas Energy Canada	Barker Creek	Middle Sikanni Chief River	7,264	822
C133934	Petronas Energy Canada	Caribou Creek	Upper Beatton River	15,076	2,387
C134054	Tourmaline Oil Corp.	Beatton River Intake	Upper Beatton River	780,000	82,571
C134092	Petronas Energy Canada	Unnamed Spring	Lower Halfway River	65,971	10
C134093	Petronas Energy Canada	Grewatsch Creek Tributary	Upper Beatton River	54,368	1,070
C134104	Petronas Energy Canada	Unnamed Stream	Lower Halfway River	50,235	1,155
C134107	Petronas Energy Canada	Unnamed Stream	Cameron River	57,582	4,511
C134110	Petronas Energy Canada	Unnamed Stream	Cameron River	79,045	7,629
C134111	Petronas Energy Canada	Unnamed Stream	Upper Beatton River	49,588	2,135
C134168	Petronas Energy Canada	Unnamed Creek	Middle Sikanni Chief River	8,199	827
C134369	Tourmaline Oil Corp.	Beatton River	Upper Beatton River	750,000	142,313
C134447	Murphy Oil Company Ltd.	Kiskatinaw River	Middle Kiskatinaw River	600,000	1,000
C134469	ConocoPhillips Canada	Halfway River	Lower Halfway River	3,650,000	141,695
C134471	Petronas Energy Canada	Sikanni Chief River	Upper Sikanni Chief	2,993,000	289,488
C500172	Secure Energy Services	Aquifer 634	Lower Peace River	36,500	3,255
C500226	Veresen Energy Pipeline Inc.	Aquifer 621	Smoky River	5,500	1,275
C500334	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	29,161	1,360
C500335	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	13,670	700
C500341	Petronas Energy Canada	FSJ Aquifer	Cameron River	2,253	180
C500344	Petronas Energy Canada	FSJ Aquifer	Lower Halfway River	16,165	3,854
C500349	Petronas Energy Canada	FSJ Aquifer	Lower Halfway River	10,463	650
C500662	ARC Resources Ltd.	Kiskatinaw River	Lower Kiskatinaw River	1,100,000	134,748

Continued on next page.

At the end of September, water used by industry by way of licence was a fraction of a per cent (0.003) of the average runoff replenished annually in northeast B.C.

LICENCE #	LICENCEE	SOURCE	BCER WATER MGMT BASIN	ANNUAL APPROVAL (m³/YR)	WATER USE (m³)
C500794	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	6,924	400
C501120	Canlin Energy Corp.	FSJ Aquifer	Upper Beatton River	1,825	137
C501477	TAQA North Ltd.	FSJ Aquifer	Middle Beatton River	1,095	46
C501578	Ovintiv Canada ULC	Aquifer 593	Lower Kiskatinaw River	120,000	37,467
C501773	Tourmaline Oil Corp.	FSJ Aquifer	Upper Beatton River	19,710	800
C501797	Canadian Natural Resources	Aquifer 931	Milligan Creek	23,725	2,563
C501865	Boundry Lake Sand & Gravel	FSJ Aquifer	Lower Peace River	10,950	455
C502277	Peaceland Farm Ltd.	Aquifer 908	Lower Halfway River	360,000	2,694
C502448	Canadian Natural Resources	Dawson Creek Bedrock	Murray River	5,475	174
C502452	Canadian Natural Resources	FSJ Aquifer	Kahntah River	3,650	11
C502455	Canadian Natural Resources	Dawson Creek Aquifer	Smoky River	1,095	267
C502462	Canadian Natural Resources	FSJ Aquifer	Kahntah River	7,300	816
C502467	Canadian Natural Resources	FSJ Aquifer	Upper Beatton River	3,650	31
C502795	Canadian Natural Resources	Aquifer 451	Blueberry River	3,650	310
C502884	Peaceland Oilfield Services	FSJ Aquifer/2 Unnamed Streams	Cameron River	32,290	1,971
C502900	Pineview Trucking & Excavating Ltd.	Unconsolidated Aquifer	Outside NEBC	98,550	19,327
C502957	Time Travel Services Ltd.	Aquifer 928	Upper Peace River	10,000	1,108
C503048	Albright Flush Systems	Aquifer 451	Cache Creek	2,920	719
C503088	Inga Water Source Ltd.	Aquifer 451	Cache Creek	21,170	4,890
C503155	Inga Water Source Ltd.	Aquifer 451	Cache Creek	76,285	18,838
C505044	LNG Canada Development	Kitimat River	Outside NEBC	1,496,500	91,419

Jul-Sept (Q3) Total Licenced Water Use: 1,296,909

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 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)
BEATTON RIVER (sub-basin of Peace River)											
Upper Beatton River	22	773,508	0.155%	2,150	0.000%	19	2,355,519	0.472%	395,101	0.079%	499,408,440
Middle Beatton River	21	364,496	0.146%	120	0.000%	1	1,095	0.000%	136	0.000%	249,152,995
Middle Beatton Total (incl. Upper Beatton)	43	1,138,004	0.152%	2,270	0.000%	20	2,356,614	0.315%	395,237	0.053%	748,561,435
Milligan Creek	4	28,000	0.015%	0	0.000%	6	235,425	0.123%	13,034	0.007%	191,536,686
Blueberry River	21	685,913	0.234%	0	0.000%	5	827,090	0.282%	17,957	0.006%	293,278,540
Doig River	5	35,400	0.011%	6,260	0.002%	1	51,100	0.016%	0	0.000%	323,069,523
Lower Beatton River	5	718,700	0.520%	148,305	0.107%	2	414,730	0.300%	0	0.000%	138,262,629
BEATTON TOTAL	78	2,606,017	0.154%	156,835	0.009%	34	3,884,959	0.229%	426,228	0.025%	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%	258	0.000%	0					860,627,172
Cameron River	14	337,861	0.151%	23,641	0.011%	30	1,354,194	0.605%	75,175	0.034%	223,679,567
Lower Halfway River	5	30,040	0.020%	1,143	0.001%	9	5,448,688	3.596%	424,691	0.280%	151,526,991
HALFWAY TOTAL	20	370,301	0.016%	25,042	0.001%	40	6,874,882	0.291%	499,866	0.021%	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	7	210,000	0.020%	2,496	0.000%	0					1,047,282,572
Sukunka River Total (includes Burnt)	10	304,002	0.017%	18,400	0.001%	0	0	0.000%	0	0.000%	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%	413	0.000%	2,698,285,017
Lower Pine River	32	2,461,618	1.789%	100,122	0.073%	1	650,000	0.472%	0	0.000%	137,619,889
PINE TOTAL	51	2,983,672	0.049%	118,522	0.002%	2	655,475	0.011%	413	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	89,992	0.160%	3,016	0.005%	1	600,000	1.065%	222,261	0.394%	56,347,972
Middle Kiskatinaw Total (incl. West & East)	6	89,992	0.032%	3,016	0.001%	1	600,000	0.215%	222,261	0.080%	279,316,049
Lower Kiskatinaw River	28	1,101,497	1.229%	60,764	0.068%	10	3,198,317	3.567%	1,123,046	1.253%	89,659,847
KISKATINAW TOTAL	34	1,191,489	0.323%	63,780	0.017%	11	3,798,317	1.029%	1,345,307	0.365%	368,975,896
PEACE RIVER											
Peace Arm	0					3	9,125,000	N/A	2,700	N/A	N/A
Upper Peace River	1	590,000	0.002%	0	0.000%	1	10,000	0.000%	9,895	0.000%	36,423,413,429
Lynx Creek	0					0					30,436,635
Farrell Creek	1	79,600	0.087%	0	0.000%	0					91,018,843
Cache Creek	0					8	677,605	0.908%	38,879	0.052%	74,603,546
Pouce Coupe River	8	261,016	0.102%	121,532	0.048%	4	1,650,200	0.645%	0	0.000%	255,686,202
Lower Peace River	14	1,850,096	1.616%	123,739	0.108%	8	4,204,919	3.673%	309,655	0.271%	114,470,012
PEACE TOTAL (incl. Kisk/Pine/Moberly/Half/Beatton)	207	9,932,191	0.021%	609,450	0.001%	111	30,881,357	0.064%	2,632,943	0.005%	47,891,853,572
SMOKY RIVER											
Smoky River	0					2	6,595	0.000%	3,027	0.000%	2,669,506,123
SMOKY TOTAL	0	0	0.000%	0	0.000%	2	6,595	0.000%	3,027	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	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	1	10,000	0.004%	357	0.000%	0					272,262,427
PROPHET TOTAL	3	11,600	0.000%	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	4	50,000	0.006%	0	0.000%	3	3,117,689	0.386%	472,360	0.058%	807,771,692
Middle Sikanni Chief River	26	334,143	0.035%	16,395	0.002%	4	29,203	0.003%	6,533	0.001%	949,755,794
Middle Sikanni Chief Total (incl. Upper Sikanni)	30	384,143	0.022%	16,395	0.001%	7	3,146,892	0.179%	478,893	0.027%	1,757,527,486
Lower Sikanni Chief	26	257,992	0.029%	0	0.000%	0					875,678,142
SIKANNI CHIEF TOTAL	56	642,135	0.024%	16,395	0.001%	7	3,146,892	0.120%	478,893	0.018%	2,633,205,628
FORT NELSON RIVER											
Kahntah River	5	20,000	0.005%	0	0.000%	2	10,950	0.003%	2,095	0.001%	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%	2,095	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)	63	676,135	0.016%	16,395	0.000%	9	3,157,842	0.073%	480,988	0.011%	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)	76	726,373	0.006%	17,827	0.000%	10	3,194,435	0.026%	483,882	0.004%	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	89	1,497,873	0.011%	20,123	0.000%	10	3,194,435	0.024%	483,882	0.004%	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 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)
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	2	12,000	0.001%	667	0.000%	0					820,464,167
Lower Liard River	4	44,220	0.004%	3,886	0.000%	0					1,236,634,664
LIARD TOTAL (incl. Fort Nelson)	96	1,569,637	0.002%	24,676	0.000%	10	3,194,435	0.005%	483,882	0.001%	64,373,155,962
PETITOT RIVER											
Sahdoanah River	9	34,000	0.013%	5,295	0.002%	0					252,625,362
Upper Petitot River	24	96,000	0.007%	0	0.000%	0					1,476,579,488
Tsea River	4	72,310	0.017%	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)	39	230,310	0.008%	5,937	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	47	252,310	0.007%	6,317	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	25	184,300	0.034%	11,608	0.002%	0					538,672,352
HAY TOTAL	58	523,591	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	0.000%	0	0.000%	0	0	0.000%	0	0.000%	109,492,680
OTHER (outside Northeast B.C.)	274	15,136,367	N/A	1,002,275	N/A	5	46,672,793	N/A	363,693	N/A	N/A
GRAND TOTAL	682	27,414,096	0.023%	1,657,199	0.001%	128	80,755,180	0.067%	3,483,545	0.003%	120,568,508,464



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