

5. Main water supply facilities

There are a variety of water supply facilities in the course until clean water from water resources is supplied to each user, and the facilities can be broadly classified into water storage facilities, water intake facilities, water conveyance

facilities, water purification facilities, water transmission facilities and water supply facilities.

The outline of the facilities in Kitakyushu City as of March 31, 2019 is as follows.

(1) Water storage facilities (Water Resources)

Name	Effective storage capacity (m ³)	Location	River system
Aburagi Dam	17,450,000	Oaza Tsuno, Soeda-machi, Tagawa-gun	Ima River
Masubuchi Dam	13,440,000	Oaza Kagumeyoshi, Kokuraminami-ku	Murasaki River
Dobaru Reservoir	450,000	Oaza Dobaru, Kokuraminami-ku	
Hata Dam	6,906,400 (2,960,000)	Oaza Hata, Yahatanishi-ku	Onga River
Shiraki Reservoir	324,000	Oaza Hata, Yahatanishi-ku	
Rikimaru Dam	12,500,000	Left shore: Shimo, Miyawaka-shi Right shore: Miyata, Miyawaka-shi	
Tonda No.1 Reservoir	4,400,000 (Pumping up from Isaza Intake Treatment Plant)	Oaza Tonda, Wakamatsu-ku	
Tonda No.2 Reservoir	4,750,000 (Pumping up from Isaza Intake Treatment Plant)	Oaza Tonda, Wakamatsu-ku and Oaza Takenami	
Onga River Estuary Weir	8,840,000	Left shore: Gion-machi, ashiya-machi, Onga-gun Right shore: Inokuma, Mizumaki-machi, Onga-gun	
Matsugae Reservoir	1,500,000	Oaza Hata, Moji-ku	Tani River
Shobudani Reservoir	210,000	Oaza Koishi, Wakamatsu-ku	Akasaki River
Yabakei Dam	21,000,000	Left shore: Oaza Oshima, Yabakei-machi, Nakatsu-shi, Oita-ken Right shore: Oaza Kikusaka, Yabakei-machi, Nakatsu-shi, Oita-ken	Yamakuni River
Heisei Weir	52,000	Left shore: Oaza Tarumi, Kamige-machi, Chikujo-gun Right shore: Oaza Takase, Nakatsu-shi, Oita-ken	

* Figures described in () indicate the water amount retained by Water and Sewer Bureau.

(2) Intake facilities (intake stations)

Name	Water intake capacity (m ³ /day)	Location	River system
Nakama Water Intake Station	69,000	Oaza Shimookuma, Nakama-shi	Onga River
Isaza Intake Treatment Plant	309,000	Futanishi 4-chome, Mizumaki-machi, Onga-gun	
Inokuma Water Intake Station	71,280	Inokuma, Mizumaki-machi, Onga-gun	Onga River (Onga Estuary Weir)
Tarumi Water Intake Station	59,120	Oaza Tarumi, Kamige-machi, Chikujo-gun	Yamakuni River (Heisei Weir)
Kuzumaki Water Intake Station	41,000	Higashi-shinozaki, Kokurakita-ku, and others	Murasaki River (Kuzumaki, Imamachi, Jono and Murasakigawa Service Storages)

(3) Water conveyance facilities

a. Main water conveyance channels

Zone	Location	Length (m)
Aburagi Dam to Kinoshita interflow well	Oaza Tsuno, Soeda-machi, Tagawa-gun to Oaza Kinoshita, Kokuraminami-ku	25,221
Masubuchi Dam to Kinoshita interflow well	Oaza Kagumeyoshi, Kokuraminami-ku to Oaza Kinoshita, Kokuraminami-ku	2,483
Kinoshita interflow well to Ideura Water Purification Plant	Oaza Kinoshita, Kokuraminami-ku to Oaza Ideura, Kokuraminami-ku	1,432
Yunokawachi junction well to the interflow point of Aburagi driving channel	Oaza Baba, Buzen-shi to Aka-mura, Tagawa-gun	16,308

b. Water conveyance pipes

Diameter (mm)	200	250	300	350	400	450	500	600	
Length (m)	1	1,122	1,268	87	7,756	1,524	3,866	9,839	
	700	800	900	1,000	1,100	1,200	1,350	1,500	Water channel
	16,906	8,487	6,199	28,319	1,029	22,624	20,300	5,961	46,546
									182,434

(4) Purification facilities

Name	Treatment method	Purification capacity (m ³ /day)	Location	Water source
Ideura Water Purification Plant	Rapid filtration method	255,200	Oaza Ideura, Kokuraminami-ku	Aburagi Dam, Masubuchi Dam, Heisei Weir (Tarumi Water Intake St.), Kuzumaki Water Intake St.
Dobaru Water Purification Plant	Slow filtration method	7,800	Oaza Dobaru, Kokuraminami-ku	Dobaru Dam
Hata Water Purification Plant	Rapid filtration method	24,000	Shimohata-machi, Yahatanishi-ku	Hata Dam
Ano Water Purification Plant	Rapid filtration method	300,000	Takanosu 3-chome, Yahatanishi-ku	Rikimaru Dam, Nakama Water Intake St., Isaza Intake Treatment Plant (Tonda Reservoir)
Honjo Water Purification Plant	Rapid filtration method	141,000	Ohiraki 5-chome, Yahatanishi-ku	Isaza Intake Treatment Plant (Tonda Reservoir), Onga estuary weir (Inokuma Water Intake St.)

(5) Water transmission facilities

a. Pump stations

Name	Number of pumps	Location	Water source
Horigoshi Pump Station	10 units	Oaza Horikoshi, Kokuraminami-ku	Ideura water Purification Plant
Numa Pump Station	2 units	Oaza Numa, Kokuraminami-ku	
Komorio Pump Station	3 units	Hayama 2-chome, Moji-ku	
Kogumano Pump Station	2 units	Izumidai 2-chome, Kokurakita-ku	
Suga Pump Station	3 units	Suga-machi, Kokurakita-ku	
Yamanokami Pump Station	14 units	Otani 2-chome, Yahatahigashi-ku	Ano water Purification Plant
Yamanomisaki Pump Station	5 units	Sainokami 2-chome, Yahatanishi-ku	
Okura Pump Station	3 units	Okura 3-chome, Yahatahigashi-ku	
Otani Pump Station	2 units	Shiinoki-machi, Tobata-ku	
Ogura Pump Station	2 units	Oaza Ogura, Yahatahigashi-ku	
Hoshigaoka Pump Station	3 units	Hoshigaoka 1-chome, Yahatanishi-ku	Hata water Purification Plant
Fujinoki Pump Station	5 units	Imamitsu 2-chome, Wakamatsu-ku	Honjo water Purification Plant
Takato Pump Station	3 units	Shin otani-machi, Wakamatsu-ku	
Ainoshima Pump Station	2 units	Oaza Ainoshima Kokurakita-ku	

* Those established in water purification plants are excluded.

b. Transmission pipe

Diameter (mm)	75	100	150	200	250	300	350	400	450	500	
Length (m)	540	6,204	6,046	3,844	7,646	4,566	1,522	4,639	12,688	19,985	
	600	700	800	900	1,000	1,100	1,200	1,350	1,500	1,900	Water channel
	20,330	28,596	13,613	41,334	42,658	12,068	3,019	1,288	104	4,167	16
											234,879



Ano Water Purification Plant
(Completed in 1961)

Area: 84,150m²
10-16, Takanosu 3-chome, Yahatanishi-ku, Kitakyushu-shi, 806-0047
TEL. +81-93-641-3338
FAX. +81-93-641-3339



Ideura Water Purification Plant
(Completed in 1972)

Area: Approx. 210,000m²
418, Oaza Ideura, Kokuraminami-ku, Kitakyushu-shi, 803-0189
TEL. +81-93-451-0262
FAX. +81-93-451-0291



Honjo Water Purification Plant
(Completed in 1983)

Area: Approx. 110,000m²
4-1, Ohiraki 5-chome, Yahatanishi-ku, Kitakyushu-shi
TEL. +81-93-693-1385
FAX. +81-93-603-5780