

◆ Example.1 Uragami Reservoir 1

■ Installation Place

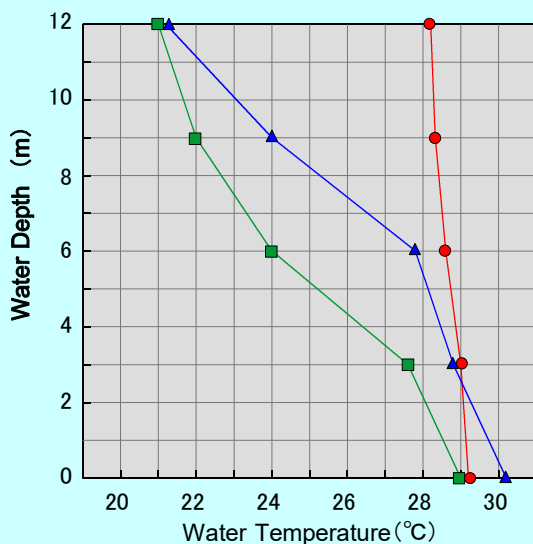
- Name : Uragami reservoir (For tap water)
- Volume of Water : 1,790,000 m³
- Water depth : 13 m

■ Specification

- Model : LSN-50-0500
- Number of Machines : 1 Unit
- Compressor : 7.5 kw× 1

■ Outline

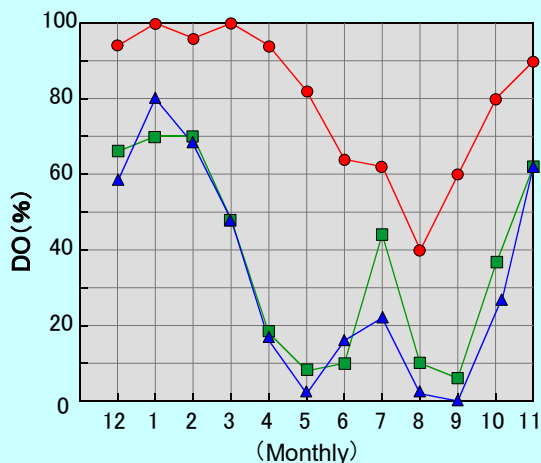
Compared water quality data of two years before LAKE-LYFTER installation with five years before, and one year after installation. In vertical distribution of water temperature, although it was a low temperature in bottom area, improved by circulation and became uniform temperature. Regarding the water quality index, as oxygen was supplied to the bottom layer area, dissolved oxygen (DO) increases, the algae such as chlorophyll-a etc was restrained by ammonium nitrogen decrease. pH is going down as photosynthesis by algae decrease. Development of odor declines in both of bottom layer and surface layer by these synergistic effect, water quality is improved in water area.



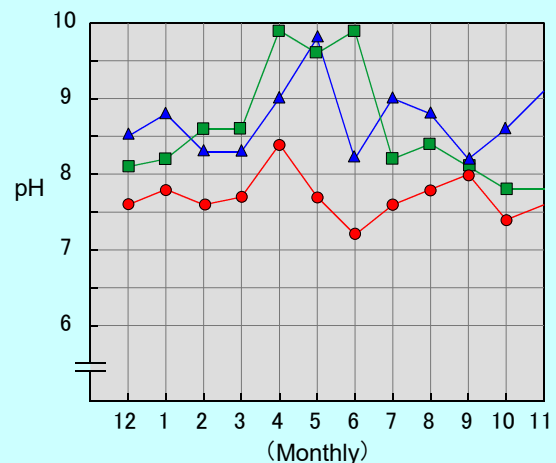
Change of water temperature vertical distribution

Example :

- : 1 Year after Installation
- ▲ : 5 Years before Installation
- : 2 Years before Installation



Change of bottom DO

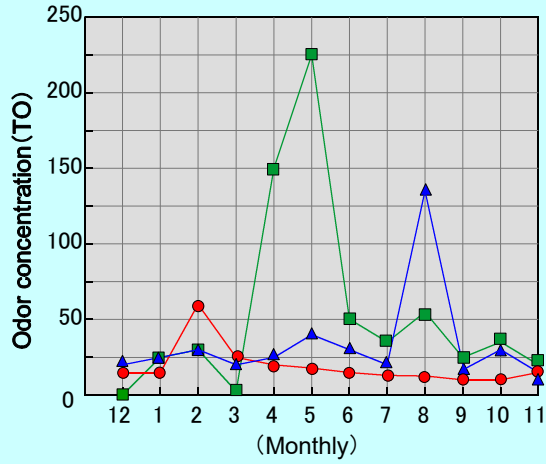


Change of surface layer pH

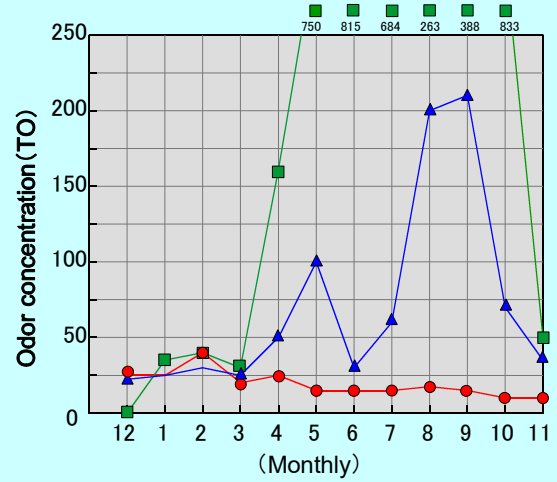
◆ Example.1 Uragami Reservoir 2

Example :

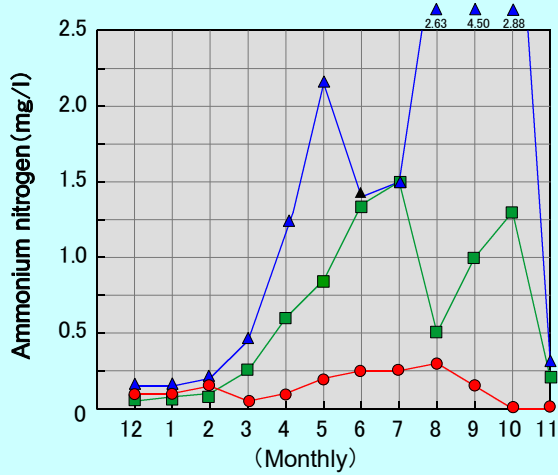
- : 1 Year after Installation
- ▲ : 5 Years before Installation
- : 2 Years before Installation



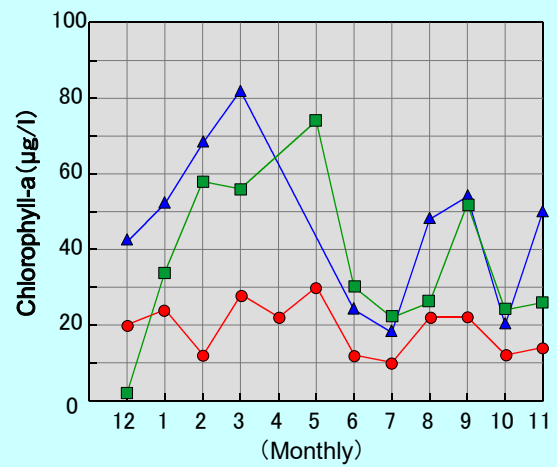
Change of odor in surface layer



Change of odor in bottom layer



Change of ammonium nitrogen NH4-H



Change of chlorophyll-a in surface layer



◆ Example.2 Sakuna Dam

■ Installation Place

- Name : Sakuna dam (For tap water reservoir)
- Volume of Water : 630,000 m³
- Water Depth : 20m

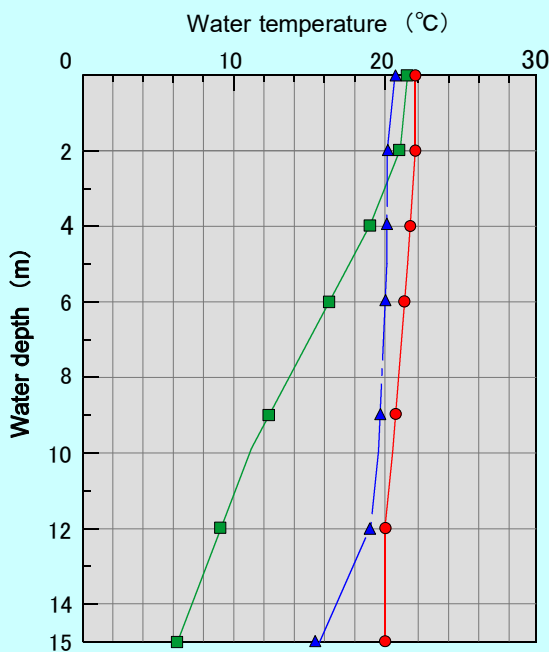
■ Specification

- Model : LSN-30-0800
- Number of Machines : 2 Units
- Compressor : 3.7kw× 1

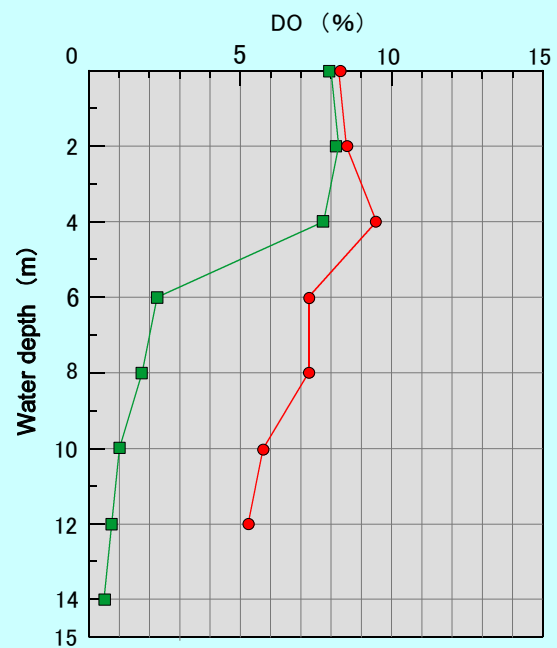
■ Outline

Compared water quality data in water depth of three years before LAKE-LYFTER installation with it after installation. In vertical distribution of water temperature, although it was a low temperature in bottom area, improved by circulation and became uniform temperature. As for water quality, dissolved oxygen (DO) increases since oxygen was supplied to the bottom layer area, chlorophyll-a decreases by ammonium nitrogen decrease, water quality is improved.

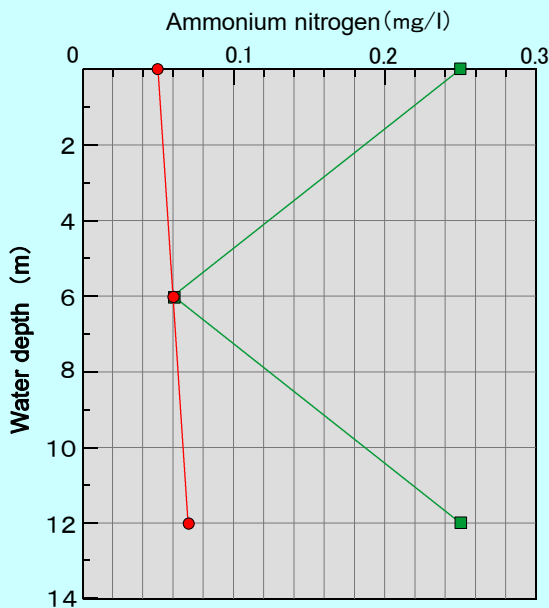
Example : ● :21 days after installation
▲ :10 days after installation
■ :3 years before installation



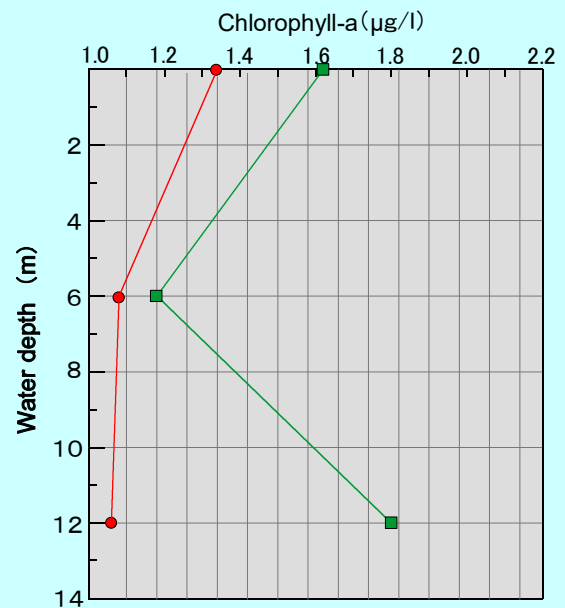
Change of water temperature vertical distribution



Change of DO vertical distribution



Change of ammonium nitrogen vertical distribution



Change of chlorophyll-a vertical distribution