



## MARKETS

- Revenue for Environment and Health is the second largest. First one for Buildings
- Water: is pipelines and other technical stuff

## GLOBAL SERVICES

Our professional network of more than 2400 environment and health experts serves clients around the world

- Air quality management
- Compliance, strategy & Transaction Services
- Ecological Services (Also Biological Services)
- Health Services (Effect of building roads, pipelines...)
- Impact Assessment (EIA/ESIA)
- Resource & Waste management
- Site Solutions

## ECOLOGICAL SERVICES

Working with clients to achieve scientifically defensible, risk based solutions that support responsible and sustainable business, environmental and resource management practices.

- Aquatic ecology
- Ecological risk assessment
- Natural resource consulting
- Nature restoration, rivers and wetlands
- Sediment management



## PROJECTS:

### 1. EPOSITTING OF SNOW IN SANDVIKSELVA

- **Challenge:** Sandvikselva is an important salmon river. The authorities have asked the municipality of Bærum to document if dumping of snow.

### 2. DISCHARGES TO THE SEA

- **Challenge:** the county governor had expressed concern that the new discharge from Hennig Olsen would degrade the water quality in a stream and a sea area outside the factory

- **What we did:** Ramboll Environment & Health was hired to determine the location of an emission point that would ensure continued good water quality. Modelling of different locations made it possible to provide qualified advice on the best location
- **Effect:** Based on Ramboll's documentation the condition of the sea / stream would not be appreciably affected by the recommended discharge sites, Hennig Olsen received their discharge permit and was able to maintain production of ice cream
- 6, 14, 15, 11, 9

### 3. REDUCED ENVIRONMENTAL IMPACT ALONG E134

- **Challenge:** the road Damåsen and Saggrenda in Buskerud does not have satisfactory road standards. Upgrading should take place without impairing the quality of water and watercourses
- **What we did:** Ramboll Environment & Health have both mapped the water quality before the start of construction and monitored the water quality during the construction process in order to uncover any impact and considered whether mitigating measures must be initiated.
- **Effect:** Environmental consultancy and ongoing monitoring have minimized the impact on the watercourses
- 6, 14, 15, 11, 9

### 4. DEVELOPMENT OF NEW E16 – 8 KM NEW 4-LANE HIGHWAY

- **Challenge:** The Norwegian Public Roads Administration are building a new 4-way highway from Bjørum in to Skaret. At the same time, good condition in the ecosystems must be maintained and no species or habitats eradicated.
- **What we did:** Ramboll Environment & health has surveyed: contaminated soil, habitats and environmentally hazardous substances in buildings. We have also created an environmental plan for follow-up of the development, and prepared the necessary applications for permits under the environmental regulations to implement the project.
- **Effect:** The environmental authority has made the necessary demands. The developer has received the necessary permits and the foundation for avoiding fishing death in nearby river has been laid.
- 6, 14, 15, 11, 9

### 5. ØKOKYST (ECO-COAST)

- **Challenge:** The coastal areas are a very important resource for Norway, but are affected, among other things, by development and emissions. The Environment Agency needs an overview of the state along the coast in order to be able to implement measures if the development is negative.
- **What we did:** Ramboll Environment & health monitor the coast by mapping species in the spring zone and collecting samples of water and bottom fauna. Based on data collected, we assess the ecological status of the coastal areas.
- **Effect:** Since monitoring takes place over several years, changes will be detected at an early stage and any measures may be taken.
- 6, 14, 15, 11, 9

### **COLLABORATION BETWEEN RAMBOLL & USN**

- First time Ramboll & USN are collaborating in these kind of projects
  - Since 1945 Ramboll have had clear idea to work for the society
  - If we are going to work towards a more sustainable world it starts with the kids
  - You are important to communicate and teach this to the children
  - **4, 6, 14, 15, 11, 9**

**YOUTUBE:** nytt dobbeltspor sandbukta-moss-såstad

### **HEALTH & SAFETY (WHAT ARE WE GOING TO DO ON THURSDAY)**

- How to act in a site
- Assessment of security on ice
- Work close to water
- Handling of chemicals