

Case study

Remote monitoring



Environmental monitoring – infrastructure

Customer:



Nitro Consult AB

Blasting and vibration consultants in the Dyno Nobel group. www.dynonobel.com

Objective:

Environmental monitoring of infrastructure projects.

Nitro Consult AB is a company in the Dyno Nobel group that works with planning and supervision of road, railroad, water and other infrastructure projects. On the large railroad project Botniabanan in northern Sweden, wastewater from the site is monitored using the Mitec GSM system. Mitec SatelLite60 loggers continuously register pH, conductivity and flow. Mitec's measuring service on Internet www.it-sensors.com is used for data acquisition and presentation.



Solution:

- Mitec battery powered GSM measuring stations log flow, pH and conductivity in open systems.
- Mitec servers collect data for presentation on www.it-sensors.com Graphic data is linked via Internet to Nitro's computer systems and embedded in their map-oriented presentations.

Advantages:

- Early warnings of pollution risk.
- Documentation for environmental quality system.
- Cost savings on reduced traveling.
- Data transferred directly to Nitro's system

Products

Measuring station:	Battery powered Mitec AT40 and SatelLite60 stations.
Communication:	GSM dual band 900/1800.
Power supply:	12V alkaline battery pack with 6-month durability. ISO14025 environmental decelerated.
Sensors:	pH sensors from Sensorex, conductivity from GLI and flow (level) sensors from PSM (UK) supplied by Mitec.
Data acquisition:	Mitec managed servers.
Information distribution:	Automatic export to customers presentation system thru Internet.



Mitec GSM measuring station



pH and conductivity sensors

MITEC INSTRUMENT AB Säfte Sweden

Phone + 46 533 16050 • Fax + 46 533 16045 • E-mail info@mitec.se • www.mitec.se
Member of Swedish Chamber of Commerce and Swedish Electronic Industry Association