23 rd Junior Eco - Expert – Ecoproject

Our Country, Our Future, Our Responsibility

Visegrad Fund

GROUP 5 : WATER AND FISHING POND SYSTEMS

Group leader: Mgr. Petr Novotný

- Participants:
  - Austria: Vincent Thaler, Lorenz Ehebruster, Dominik Koll and Sarah Gassner
  - Czech Republic: Michaela Fryčová, Magdalena Wolfová, Michaela Kodadová
  - Hungary: Erdei David Karoly, Kunder Lela and Kunder Botond
  - Slovakia: Alexandra Nosálová and Karolina Kolláriková
  - Poland: Kevin Urbaczka, Lukasz Krajewski and Pawet Zachorek
  - Media group: Dominik Koll , Vincent Thaler

Building process of the ponds

1. FINDING THE BEST SPOT

- The water had to flow from the highest to the lowest point through a designated pathway.

- The pond area had to be free from various types of threats that could potentially damage the entire system.

Building process of the ponds

2.MEASUREMENTS

- Continuity of water flow in different scenarios and climatic conditions.
- Geological analysis of the terrain to ensure stability and absence of significant tectonic movements.
- Hydrological studies to assess the availability of an adequate supply of clean water.
- Evaluation of climatic conditions such as temperature, sunlight, and rainfall.
- Comprehensive decision-making process considering technical and economic factors for system stability and efficiency.

Building process of the ponds

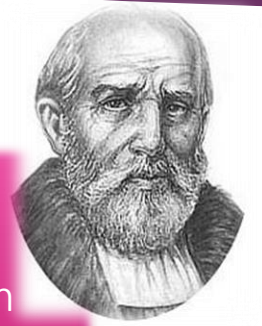
3.BUILDING

Summary:

1. site preparation and commencement of work
2. creating security and systems
3. creating an appropriate coastal area
4. making new roads and paths

PONDMAKERS

Josef Štěpánek Netolický



- 1460-1538
- Expanded ponds in Eastern Czech Republic (Žehuňský rybník) and in the Třeboň region.
- Constructed Zlata Stoka to supply the ponds with fresh water.
- Developed a system for transferring fish between ponds based on their size.
- Introduced the practice of summer ponds.

Jakub Krčín

- 1569: Became regent of Rožmberk estates.
- Contributed to economic prosperity of Rožmberk property.
- Participated in construction of water pipeline to Prague Castle.
- Built and expanded ponds in Třeboň region.
- Constructed largest pond in Rožmberk near Hlína village.

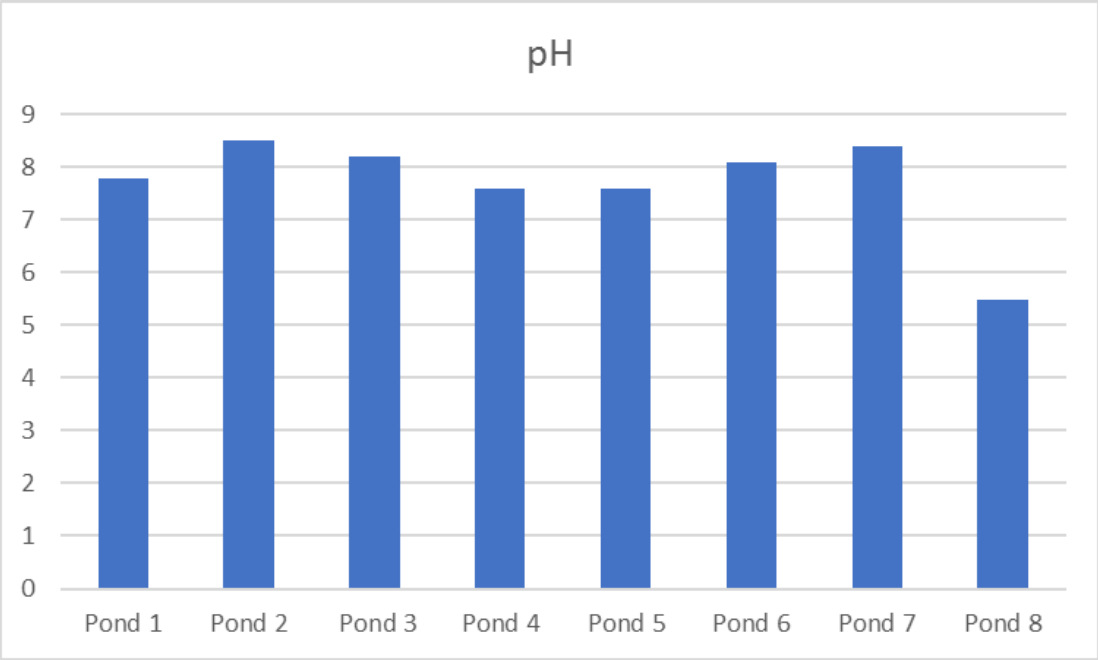
Dam measured 2,430 meters in length.

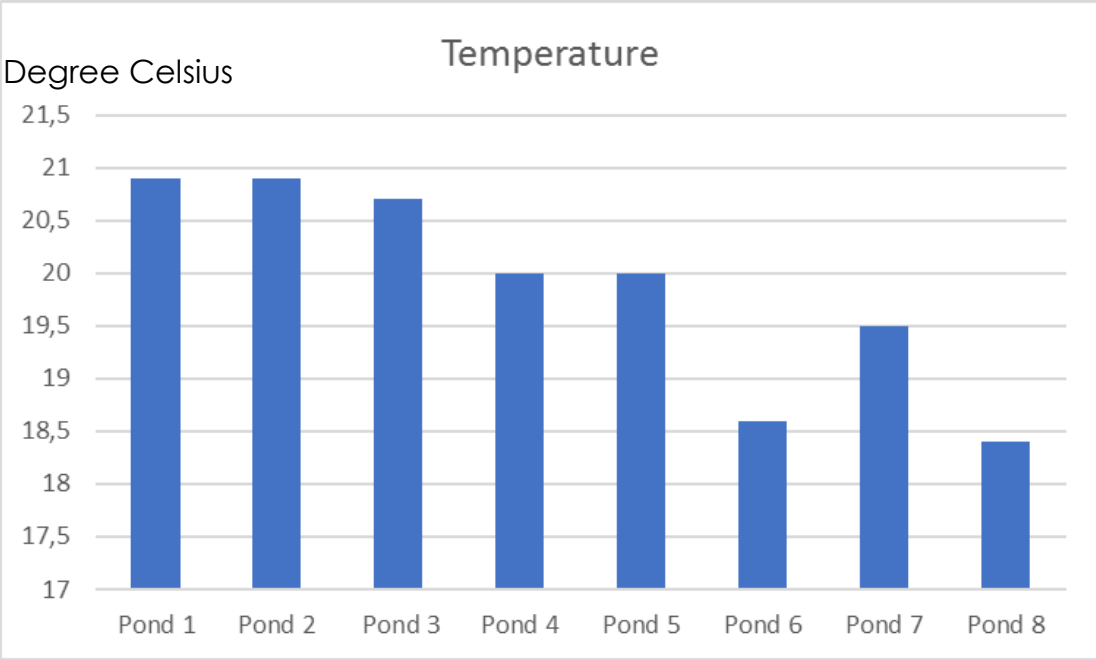
Pond's surface area approximately 1,060 hectares (current size is smaller).

Introduction:

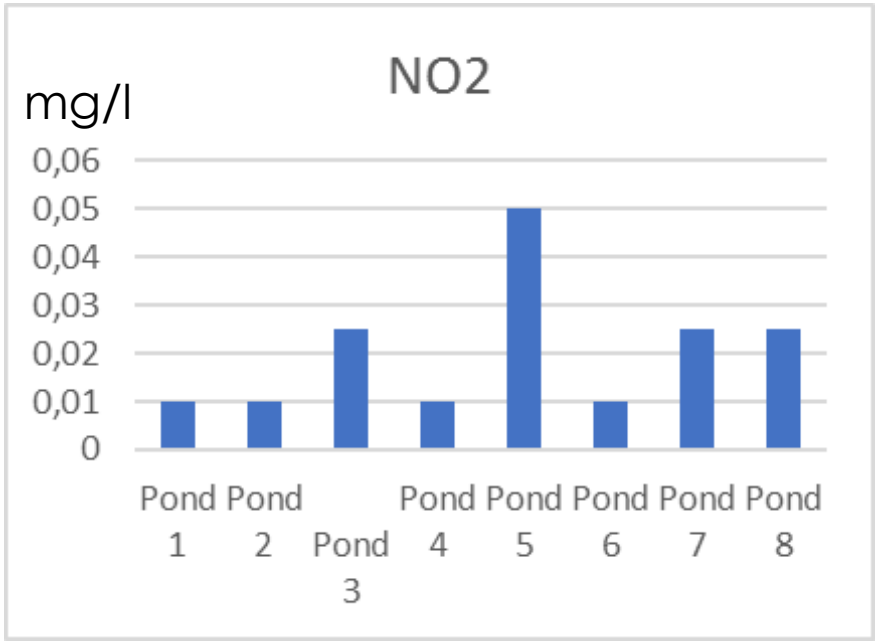
- We were researching the compounds of man-made fishing ponds and measuring values of water like pH and temperature around Veselí nad Lužnicí
- Local people acknowledged the fact that fishing pounds are beneficial from several point of views , pounds attract both tourists and conserving the natural habitat of endemic species
- Water plays a vital role in the identity of the town and also in sustainable development

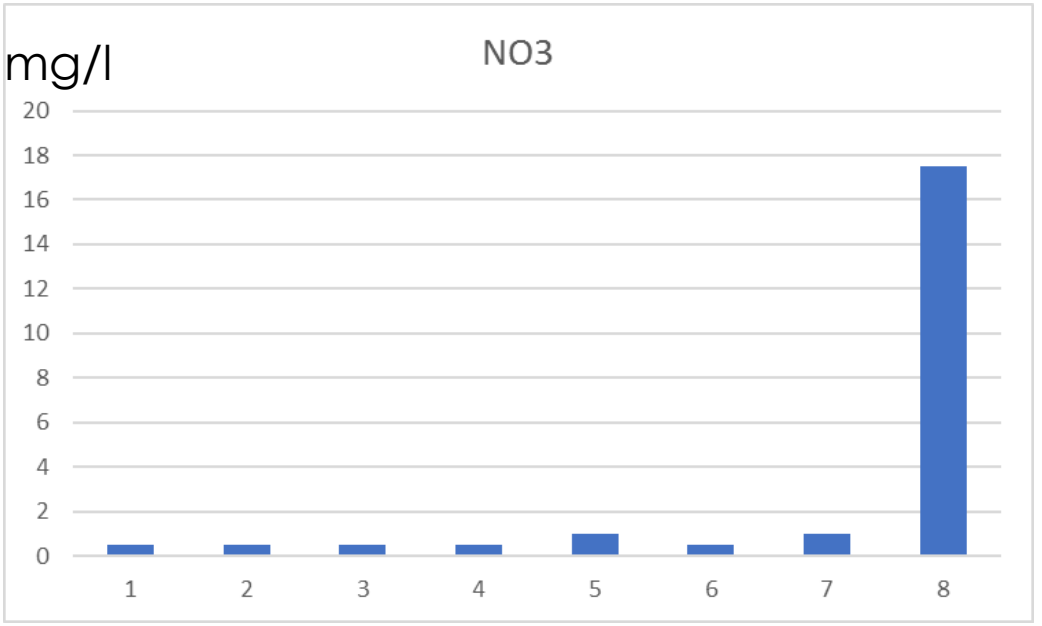
Results


pH
9
8
7
6
5
4
3
2
1
0
Pond 1
Pond 2
Pond 3
Pond 4
Pond 5
Pond 6
Pond 7
Pond 8

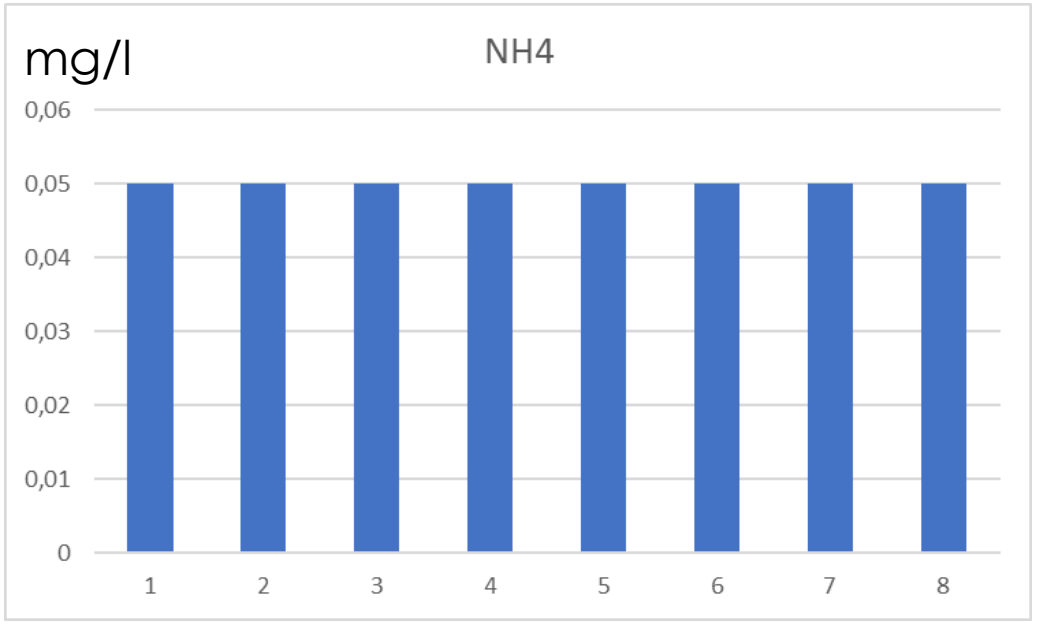

Degree Celsius
Temperature
21,5
21
20,5
20
19,5
19
18,5
18
17,5
17
Pond 1
Pond 2
Pond 3
Pond 4
Pond 5
Pond 6
Pond 7
Pond 8

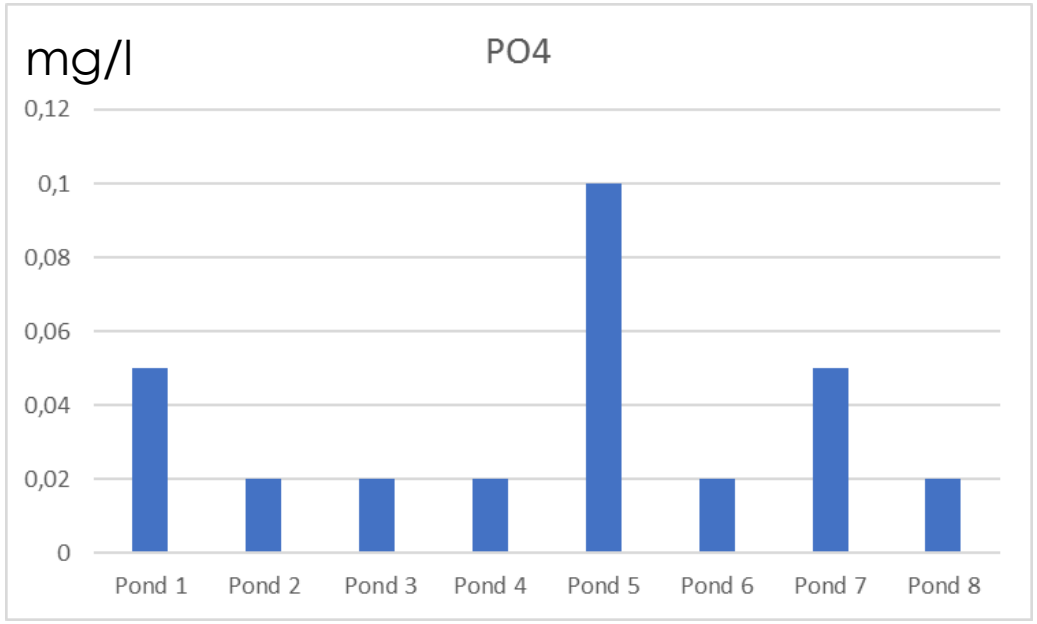
Results


NO2
mg/l
0,06
0,05
0,04
0,03
0,02
0,01
0
Pond 1
Pond 2
Pond 3
Pond 4
Pond 5
Pond 6
Pond 7
Pond 8


NO3
mg/l
20
18
16
14
12
10
8
6
4
2
0
1
2
3
4
5
6
7
8

Results


mg/l
NH4
0,06
0,05
0,04
0,03
0,02
0,01
0
1
2
3
4
5
6
7
8


mg/l
PO4
0,12
0,1
0,08
0,06
0,04
0,02
0
Pond 1
Pond 2
Pond 3
Pond 4
Pond 5
Pond 6
Pond 7
Pond 8

Location of the Ponds

- 1: Sandpit 1
- 2: Sandpit 2
- 3: Sandpit 3
- 4: Sandpit 4
- 5: Pond Horusický

Location of the Ponds

- 6: Pond Svět
- 7: Pond Opatovický
- 8: Peat Water near Borkovice

What the program gave us?

- Idk, trauma?
- We made new friendships
- We learned how to measure pH and temperature of water
- Sports experience
- Expanding our English vocabulary
- Much purple (we love purple…now)
- T-shirts, hats and pens for free
- Injured legs):
- Annoying mosquitos

And what the future holds for us? IDK

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THANK YOU FOR YOUR ATTENTION