

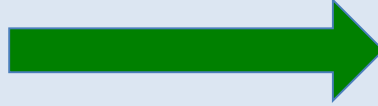


The Optimization of Telemetry Transmitter Locations and Confirmation of Flow Meter Specifications at NELHA



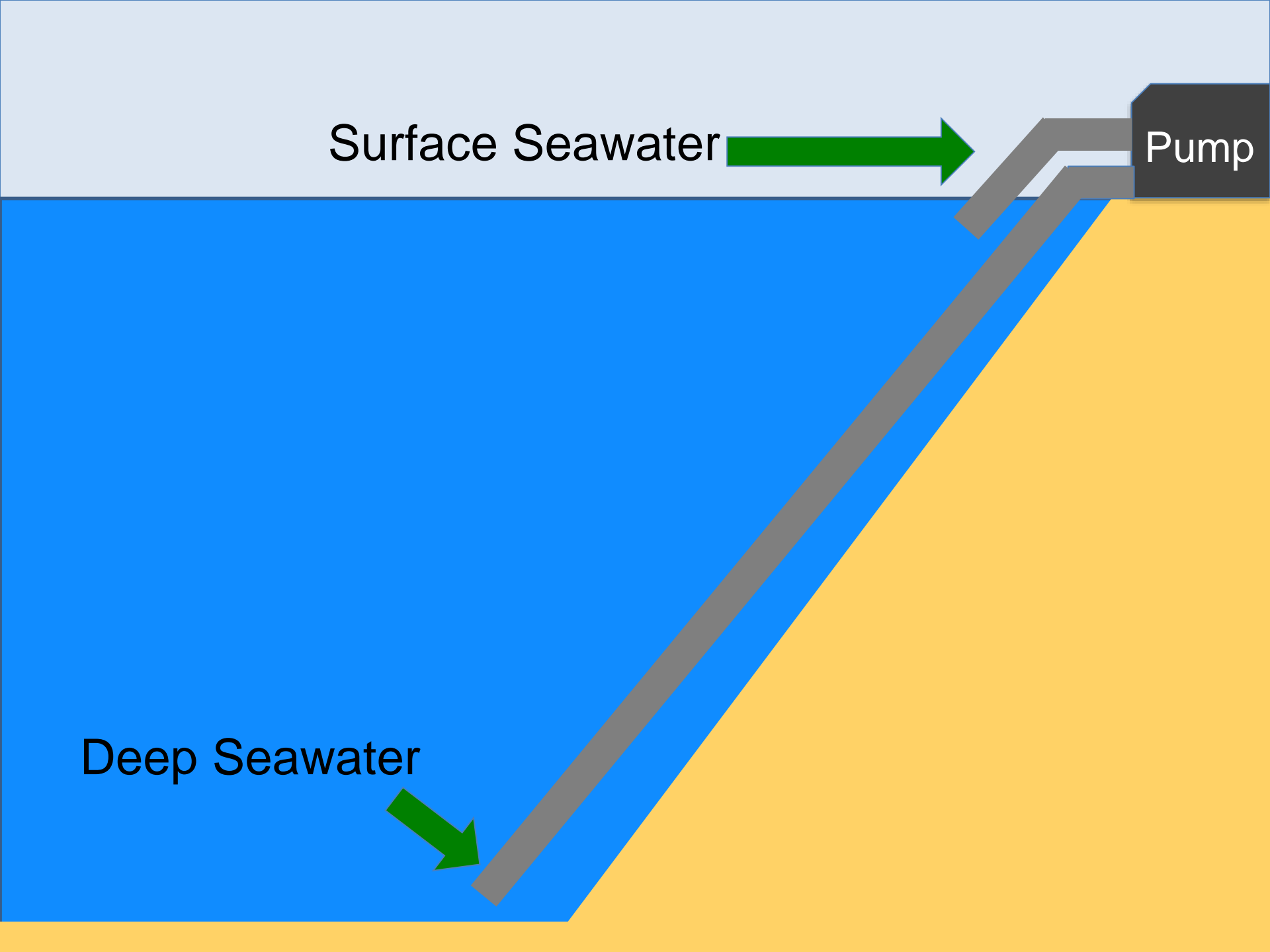
By: Ian Denzer
Mentors: Keith Olson
and Dean Towle

Surface Seawater



Pump

Deep Seawater



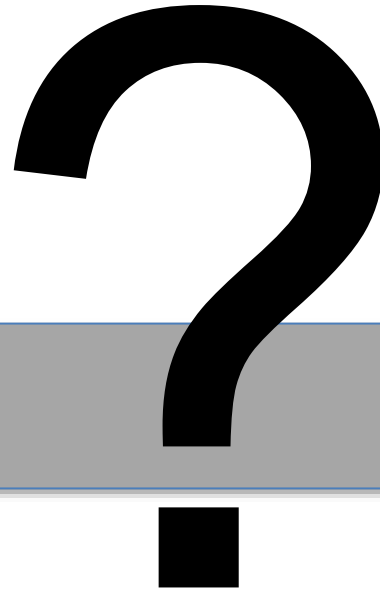
Pipes and Pumps

Currently

- Controlled by demand
- System monitored by pressure
- Monthly totalizer check



Flow Meters



The Project

Part 1: Survey
water intake

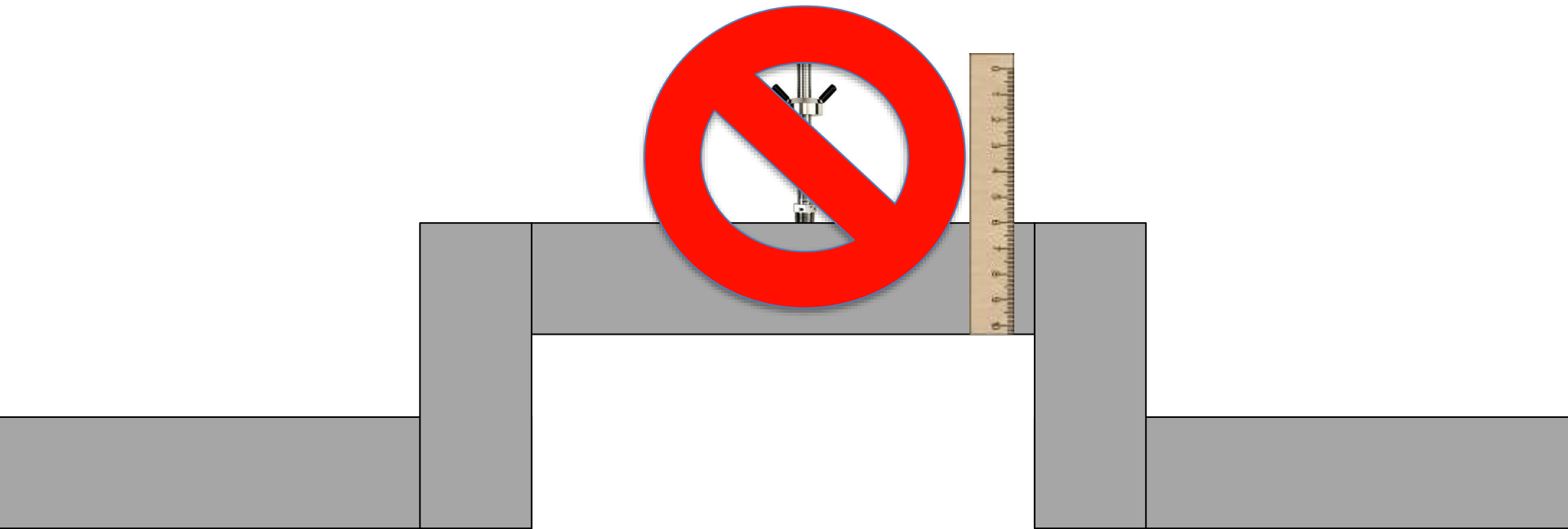
Part 2: Telemetry
system

Location: _____

	Pipe 1	Pipe 2	Pipe 3	Pipe 4	Pipe 5	Pipe 6	Pipe 7	Pipe 8
GPS								
DSW/SSW								
Pipe D								
GPM								
Mean Flow								
Max Flow								
Min Flow								
Filter								



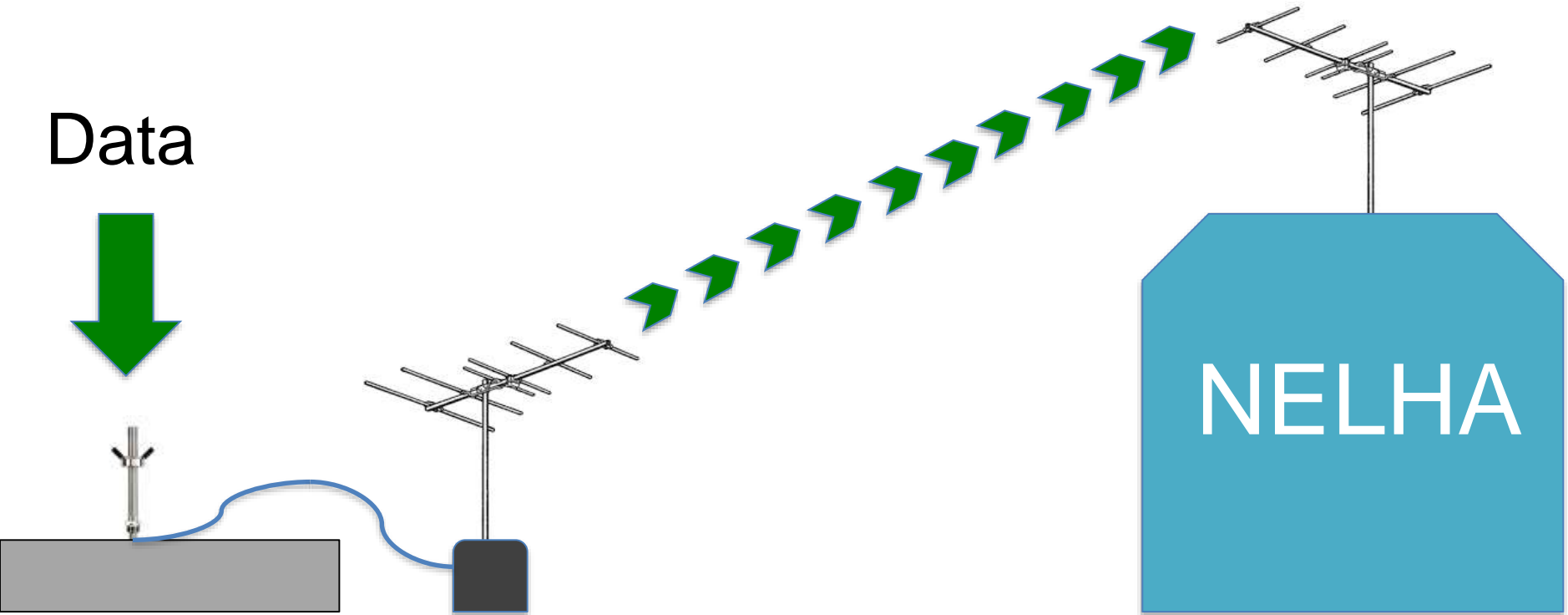
Key Parts



Part 2: Telemetry System

What is telemetry?

Data





EX:

Challenges



- Distance
- Buildings
- Road
- Future Tenants
- Construction

Acknowledgment

S

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