


**University Environment Committee
East Recharge Basin - Water-Level Monitoring
Implementation and Safety Plan**

PROJECT INFORMATION

Project Lead:	Malcolm Bowman, Distinguished Service Professor
Department:	SoMAS
Email:	malcolm.bowman@stonybrook.edu
Office Phone:	631-632-8669
Cell Phone:	631-355-3120
Location:	Stony Brook University, Main Campus, East Recharge Basin, located east of Circle Road and north of Shirley Kenny Drive.
Project Site:	West shore of lake adjacent to access gate. 
Project Description:	A study of water level fluctuations in the basin due to natural causes and discharge during precipitation events over the basin's catchment area. The initial study duration will be one year with time extension possible depending on interest and findings.
Field Work Activity:	<ol style="list-style-type: none"> 1. Site access. <ul style="list-style-type: none"> ○ A second padlock will be placed on the access gate by the research team so that either padlock provides access to the study area. ○ Project leader will notify University Police (Eric Olsen, UPD Assistant Chief of Patrol, Eric.Olsen@stonybrook.edu) of the schedule for working at the project site, with approximate time, duration, and personnel involved. Access will only be requested during daylight hours. ○ Site visits will occur every 1-2 weeks and will involve visual inspection of the instrument, noting the water level reading on the tide staff for ground truth verification of the instrument reading, and retrieval of recorded data using a laptop computer. Total time on site will typically be 30 minutes or less. Routine maintenance will involve changing batteries every few months as needed. ○ Project team will notify project leader each time they are entering the site. ○ Project team will carry a charged cell phone, programmed with University Police number (631-632-3333). ○ Project team will notify the project leader each time they exit the site.

	<p>2. Installation of water-level recorder system.</p> <ul style="list-style-type: none"> ○ Water level recorder system is a donated commercial device. The recorder mount will be fabricated at the SoMAS Ocean Instrument Laboratory by Thomas Wilson, SoMAS Instrument Engineer, using hand and power tools. The instrument will be installed by Mr. Wilson and volunteers on site using a post hole digger, hand, and power tools, with Mr. Wilson conducting all activities involving power tools. <p>3. Inspection and maintenance.</p> <ul style="list-style-type: none"> ○ Site visits will occur every 1-2 weeks and will involve visual inspection of the instrument, noting the water level reading on the tide staff for ground truth verification of the instrument reading, and retrieval of recorded data using a laptop computer. Total time on site will typically be 30 minutes or less. Routine maintenance will involve changing batteries every few months as needed. <p>4. Data collection.</p> <ul style="list-style-type: none"> ○ Recorded data will be retrieved during site visits using a laptop computer. <p>5. System removal.</p> <ul style="list-style-type: none"> ○ Instrument will be removed, mount dismantled and removed. Any holes left by post removal will be filled with local soil and restored to grade.
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FIELD WORK PERSONNEL

CATEGORY <small>Student/Faculty/Staff</small>	NAME <small>(First Name, Last Name)</small>	PHONE <small>(Include Area Code)</small>	EMAIL
Staff	Thomas Wilson	516-662-3528	thomas.wilson@stonybrook.edu
Faculty	Malcolm Bowman	631-632-8669	malcolm.bowman@stonybrook.edu
Student	Mateo Mezc		mateo.mezic@stonybrook.edu

As students are added or removed from the project the above information will be supplied to EH&S at least 12 hours prior to any fieldwork being conducted.

RISK ASSESSMENT

Potential Hazard	Description	Mitigation
Slip, trip and falls	Rugged, slopes and slippery terrain.	Wear sturdy shoes that provide traction.
Cuts, contusions, bruises, eye injuries	Walking through brush. Use of hand and power tools.	Wear appropriate personal protective equipment (e.g. safety glasses, goggles, face shield, gloves, etc.). Do not use power tools unless trained.
Animal bites	Wild animals (e.g. squirrels, raccoons, feral cats, geese, dogs...) may be present.	Cautiously enter and travel through the area. Do not approach wild animals.
Insect bites	Bees, mosquitos, spiders, ticks and other insects may be present.	Wear long shirts and pants. Use an EPA-registered insect repellent with

		DEET or other approved active ingredient.
Poisonous plants	Poison ivy, sumac and other plants may be in the area.	Wear long shirts and pants. Wear gloves if handling foliage. Wash hands of skin that comes into contact.
Sunburn	Overexposure to the sun's harmful ultraviolet (UV) radiation can cause sunburn	Cover up with clothing, including a broad-brimmed hat and UV-blocking sunglasses. Use a broad spectrum (UVA/UVB) sunscreen with an SPF of 15 or higher.
Heat exhaustion/stroke	Heat illness can occur from the loss of the water and salt, usually through excessive sweating, when working in a hot environment.	Drink plenty of water. Take work breaks. Rest in shade.
Frostbite/hypothermia	Prolonged exposure to cold can cause frostbite and hypothermia, or abnormally low body temperature.	Wear appropriate clothing. Protect the ears, face, hands and feet. Stay dry.
Drowning	Unintentional fall into water.	Use caution near water's edge.
Back injury	Straining, repetitive tasks, awkward postures (twisting), lifting, pulling, pushing heavy objects.	Get help carrying heavy objects. Use proper lifting techniques.
Crime	Theft, aggressive encounters, assault.	Never work alone. Program cell phone with SB Guardian. Follow check-in procedures.
Severe Weather	Lightning, heavy rains, high winds.	Check weather for approaching storms.

SAFETY PLAN

Injury/Illness Prevention:

1. Review potential hazards identified in the risk assessment and implement safety measures as specified or appropriate.
2. Wear appropriate clothing, shoes, sunscreen, insect repellent and personal protective equipment.
3. Be mindful of changing conditions.

Access:

1. Access the site only at approved dates/times.
2. Enter the site through the gate along Circle Road
3. Use approved pathways.
4. Do not enter at dusk.
5. Do not enter area alone.
6. Follow communications plan.

Communications:

1. Project leader will notify University Police of the schedule for working at the project site.
 - a. Send email to Eric Olsen, UPD Assistant Chief of Patrol, Eric.Olsen@stonybrook.edu
2. Project team will notify project leader each time they are entering the site.

- 3. Project team will carry a charged cell phone, programmed with University Police number (631-632-3333).
 - 4. Project team will notify the project leader each time they exit the site.
- Personal Protective Equipment:
- 1. Wear appropriate clothing as noted in Risk Assessment.
 - 2. Wear safety glasses, goggles and/or face shield and gloves when using power tools.

EMERGENCY PLAN

- 1. Download the SB Guardian app on you cell phone prior to working in the field (get more info>> www.stonybrook.edu/police/).
- 2. Call the University Police Department in case of any emergency (police, fire, medical, other)
 - a. Dial 631-632-3333, or 2-3333 from a campus phone
- 3. Student injuries should be reported to the Student Health Center.
- 4. Faculty/staff injuries should be reported to the Accident Reporting System (get more info>>www.stonybrook.edu/hr/)
 - a. Notify your supervisor.
 - b. Complete Accident and Employee Investigation Report
- 5. Contact the Department of Environmental Health & Safety to report any safety hazard.
 - a. 631-632-6410

PLAN APPROVAL

Project Lead:	Date:
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TRAINING

All students, faculty and staff involved in this project, must review and acknowledge reading this Safety Plan. The Project Leader must provide additional training and instructions, as necessary to ensure the safety of the project team.

NAME	SIGNATURE	DATE
Malcolm Bowman		
Thomas Wilson	<i>Thomas Wilson</i>	9/2/2019
Mateo Mezic		