



## MOSS LANDING MARINE LABORATORIES

### DIVE SAFETY PROGRAM

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## MLML Diving Safety Program Scientific Dive Plan Proposal

Dive Plan ID: 102136  
Status: Expired  
Created by: Steller, Diana #30005  
Date Created: 9/21/2021  
Expiration Date: 12/31/2021  
Title: MS105 - Fall 2021  
Dates Proposed: 20 Aug - 16 December 2021  
General Dive Site: Monterey Peninsula  
Location:  
Dive Group:

Primary Investigator: D. Steller M Hess (dsteller@mlml.calstate.edu)

Estimated # of dives per diver each day:	Depth Range	< 30 feet	30 - 60 feet	60 - 80 feet	> 80 feet
# Dives per diver each day:		0	2	0	0

Estimated Bottom: 40

Time per Dive:

Dive Mode: Open-Circuit

Breathing Gas: Nitrox <<% O2

Dive Environment: Coastal

Dive Platform: Home Institution's R/V

Scuba Compressor: Is the compressor used to fill SCUBA cylinders owned by the university? Yes

Scuba Cylinders: Hydrostatically tested within the past 5 yrs and visually inspected within 1 yr.? Yes

Air Tools: Will air tools (lift bag, vacuum, drill etc.) be used for this project? Yes

Joint Diving Operations: Diving conducted jointly with other agencies/institutions? No

Oxygen at Site: Yes Estimated Volume of Oxygen Available: 425 liter

First Aid at Site: Yes

Dive Flag at Site: Yes

Nearest Medical Treatment Facility to Dive Site: Location: Community Hospital of the Monterey Peninsula, 23625 Pacific Grove-Carmel Hwy, Mo Telephone: (831) 624-5311

Transportation Method & Distance: vehicle / ~ 30 minutes

Nearest Recompression Treatment Facility to Dive Site: Location: Pacific Grove Recompression Chamber, PG Fire Station #4 600 Pine Avenue, Pacific Telephone: GO TO HOSPITAL FIRST - call em

Transportation Method & Distance: helicopter, boat, vehicle (15-30 minutes)

Emergency Contact

Numbers:

Local EMS Telephone 911  
Number:

Local Coast Guard 510-437-3701 Coast Guard  
RCC Number:

United States Coast Channel 16 on Marine VHF Radio  
Guard:

Diver's Alert Network 1-919-684-9111 - <http://www.diversalertnetwork.org/>  
(DAN):

Diving Safety Officer 831-588-5591 DS/ Safety O  
Cell Phone:

Detailed Dive Plan: Generally 2 dives a day will be performed throughout the class using the annual class outline of swim test, pool dives (this year in open water) and training, rescue and RCCA science dives.

Describe the buddy system that helps ensure effective communication throughout the dive and the general lost diver procedures:

List of sampling equipment in dive plan and considerations for their use:

Hazards and Mitigation:

Buddy system will be used on all dives. Divers will plan to coordinate dive plan to be within arms reach at all times.

Lost diver procedure, look around for 1 minute, ascend safely directly to surface, wait on surface.

Sampling gear, Camera, collecting permit, collecting bags, lift bags

Hazards	Mitigation Measures
swell	Use forecasting as predictions, survey site upon arrival, only diving when conditions are appropriate. Determine alternative exits
DCI DCS	Plan dives well. Hydrate. Ascend and descend slowly. Avoid long cold dives. Ensure not exceed depth limits or time underwater such that we exceed pO <sub>2</sub> . Diver suspected of DCS/DCI will be evacuated to the nearest medical facility and transported to the nearest chamber if necessary. First Aid and o <sub>2</sub> will be administered for minor cases until EMS arrive, if deemed necessary. All incidents will be reported.
Entanglement	Each diver has cutting device. Carrying a knife and maintaining a slim profile will be ensured. Good buddy system thus buddy will be nearby to assist if necessary.
Lost Buddy	Maintaining close proximity to dive partner. If dive partner is lost or cannot be seen, a 1 min circle search will be conducted followed by directly surfacing. If dive buddies do not appear on surface, standby divers and support are to be notified on shore and the coast guard should be notified
Boat Traffic	Dive Flag in boat or float on surface of most dives. All divers will have hi-vis SMB to deploy in the event of persistent boat traffic. Maintain a reserve in tank for all dives of min 500 psi
Predators	Use protocols in place. Minimize time on surface and long surface swims.

Expected Dive Team Members:

- [MLML Certification List](#)
- AAUS Reciprocity Form required for visiting divers from Agency/Institution's DSO.

Diver	Agency/ Institution	Depth Certification	Lead Diver
Steller, Diana #30005	MLML	150 ft.	*
de Jong, Celine #30157	MLML	60 ft.	
Hess, Matthew #30151	MLML	100 ft.	
student roster	MLML MS015	30 ft.	

General Dive Plan Considerations:

\* Any diver has the right to refuse to dive without fear of penalty if she/he feels the conditions are unsafe or unfavorable OR the dive violates the precepts of their training OR the regulations of the MLML Diving Safety Program. MLML Dive Manual can be downloaded from the following site <https://diving.mlml.calstate.edu/certification/>

\* All Dive plans MUST be based on the competency of the least experienced diver.

\* An ascent rate of 30ft/min and a precautionary stop at 15-20ft for 3-5min should be made for each dive.

\* Depth certification levels may be extended only to the next deepest certification level, with prior approval, only if the diver with the limiting depth certification level is buddied with a diver certified to the deeper depth level.

\* For all diving conducted under hazardous conditions a plan should be formulated to deal with such conditions.

\* All divers using dive computers to plan dives and indicate or determine decompression status should follow the AAUS recommended dive computer guidelines noted in the Dive Manual.

\* Plan dives conservatively and maximize surface intervals.

\* A diver should wait at least 18-24 hrs before flying or traveling to altitude (2000+ft) after any dive.

\* An Emergency Plan should be reviewed for each project including the following: emergency contact information (including name, relation and telephone number may be available on Webdiver) for each diver, nearest recompression chamber, nearest accessible hospital and anticipated means of transportation.

Diving Accident Emergency Management Plan:

A diving accident victim is any person who has been breathing air underwater regardless of depth. It is essential that emergency procedures are pre-planned and medical treatment is initiated as soon as possible.

It is the responsibility of the "Diver-In-Charge" to develop procedures for such emergencies including evacuation and medical treatment for each dive location.

General Procedures:

Explain the circumstances of the dive incident to the evacuation team, medics and physicians. Do NOT assume that they understand why 100% Oxygen may be required for the diving accident victim or that recompression treatment may be necessary. Use DAN medical experts to help you explain this to medical professionals if needed.

1. Rescue victim and/or position so the proper procedures may be initiated.
2. Establish (C)irculation, (A)irway, and (B)reathing as required.
3. Administer 100% oxygen, if appropriate (in cases of Decompression Illness or Near Drowning).
4. Activate the local EMS or Coast Guard (at sea) for transport to the nearest appropriate medical facility. (the local EMS will vary from site to site - it must be stated in dive plan)
5. Contact the Diver's Alert Network, Coast Guard or EMS
6. Contact Diving Safety Officer (DSO) and Emergency Contact Person.
7. Complete and submit Incident Report Form (in manual) to DSO (within 24 hrs).

Diver's Alert Network (DAN): 1-919-684-9111

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Signature: *Diana Steller* Title: DSO Date: 9/21/2021

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