

**LONG BEACH FIRE DEPARTMENT
Marine Safety Division**

TRAINING ACTION PLAN

**A-Shift Shark Navigator
Drill**



Operational Period

**Date From: 12/09/2024
Time From: 0830 Hours**

**Date To: 12/09/2024
Time To: 1200 Hours**

Approved By Incident Commander:

Rank, First Initial, Last Name

MEDICAL PLAN (ICS 206)

1. Incident Name:	2. Operational Period: Date From: _____ Time From: _____	Date To: _____ Time To: _____
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3. Medical Aid Stations:			
Name	Location	Contact Number(s)/Frequency	Paramedics on Site?
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

4. Transportation (indicate air or ground):			
Ambulance Service	Location	Contact Number(s)/Frequency	Level of Service
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS

5. Hospitals:							
Hospital Name	Address, Latitude & Longitude if Helipad	Contact Number(s)/Frequency	Travel Time		Trauma Center	Burn Center	Helipad
			Air	Ground			
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

6. Special Medical Emergency Procedures:
<input type="checkbox"/> Check box if aviation assets are utilized for rescue. If assets are used, coordinate with Air Operations.

7. Prepared by (Medical Unit Leader): Name: _____ Signature: _____

8. Approved by (Safety Officer): Name: _____ Signature: _____
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ICS 206	IAP Page _____	Date/Time: _____
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SAFETY MESSAGE/PLAN (ICS 208)

1. Incident Name:	2. Operational Period: Date From: _____ Date To: _____ Time From: _____ Time To: _____	
3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan:		
4. Site Safety Plan Required? Yes <input type="checkbox"/> No <input type="checkbox"/> Approved Site Safety Plan(s) Located At:		
5. Prepared by: Name: _____ Position/Title: _____ Signature: _____		
ICS 208	IAP Page _____	Date/Time: _____



Long Beach Fire Department Dive Team Dive Plan

Date: 12-09-2024

Location: Boat Ops

Dive Supervisor: Wawrzynski

Depth: 15'- 20'	Visibility: 0-5'	Temp: 62 deg
Equipment: <input checked="" type="checkbox"/> Wet	<input checked="" type="checkbox"/> Dry	<input type="checkbox"/> RDU
Dive Type: Shark Navigator	<input checked="" type="checkbox"/> SCUBA	<input checked="" type="checkbox"/> Surface Comms
Hazards: <input checked="" type="checkbox"/> Entanglement	<input checked="" type="checkbox"/> Overhead Environment	<input type="checkbox"/> Pollution
<input type="checkbox"/> Other:	<input type="checkbox"/> Strong Current	

Dive 1	Time: 0830				
Divers:	Reinheimer Gonzales				
RIC:	Mathison				
Start P.G.:	A				
Depth:	20 Ft.				
Bottom Time:	20 Min.				
Safety Stop:	N/A				
End P.G.:	B				
Surface Interval:					
Coverage:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">RB-3</td> <td style="width: 50%;">ABM</td> </tr> <tr> <td>LG-7</td> <td>Beach</td> </tr> </table>	RB-3	ABM	LG-7	Beach
RB-3	ABM				
LG-7	Beach				

Dive 2	Time: 1000				
Divers:	Bradley Farnell				
RIC:	Mathison				
Start P.G.:	A				
Depth:	20 Ft.				
Bottom Time:	20 Min.				
Safety Stop:	N/A				
End P.G.:	B				
Surface Interval:	5 Min				
Coverage:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">LG-6</td> <td style="width: 50%;">Beach</td> </tr> <tr> <td>RB-1</td> <td>DTM</td> </tr> </table>	LG-6	Beach	RB-1	DTM
LG-6	Beach				
RB-1	DTM				

Dive 3	Time:				
Divers:					
RIC:					
Start P.G.:	A				
Depth:	20 Ft.				
Bottom Time:	20 Min.				
Safety Stop:	N/A				
End P.G.:	B				
Surface Interval:					
Coverage:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">LG-7</td> <td style="width: 50%;">Beach</td> </tr> <tr> <td>RB-3</td> <td>DTM</td> </tr> </table>	LG-7	Beach	RB-3	DTM
LG-7	Beach				
RB-3	DTM				

Notifications: USCG (310) 521-3815 Catalina Hyperbaric Chamber (310) 510-4020

Dive Description/Sketch:

Descend PLS
 Mark PLS on Navigator
 360 Degree Scan
 Identify Bridge abutment Navigate to bridge abutment.
 Circumnavigate the bridge abutment, keeping it on your left shoulder
 Navigate back to the PLS.
 Controlled ascent to the surface.
 Switch rolls if applicable and repeat

0830 RB1, LG6 (Reinheimer, Gonzales) meet at station 33. LG7 cover beach, RB3 cover Bay

1000 RB2 (Bradley), LG7 (Farnell) meet at station 33. RB1 cover DTM, RB3 cover Bay, LG6 cover beach



NOAA NO-DECOMPRESSION TABLE MULTIPLE AIR DIVES

WARNING: EVEN STRICT COMPLIANCE WITH THESE CHARTS WILL NOT GUARANTEE AVOIDANCE OF DECOMPRESSION SICKNESS. CONSERVATIVE USAGE IS STRONGLY RECOMMENDED.

RNT RESIDUAL NITROGEN TIME
 + ABT ACTUAL BOTTOM TIME
 ESDT EQUIVALENT SINGLE DIVE TIME
 (USE ESDT TO DETERMINE END-OF-DIVE LETTER GROUP)

THESE CHARTS ARE BASED ON THE U.S. NAVY AIR DECOMPRESSION TABLES 7, 8, & 9 REV. 6

CHART 1 – DIVE TIMES WITH END-OF-DIVE GROUP LETTER

DEPTH	msw		DIVE TIME REQUIRING DECOMPRESSION STOP																00
	msw	fsw	MINUTES REQUIRED AT 20 fsw (6.1 msw)																00
12.2	40	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	180		
13.7	45	11	17	24	31	39	46	55	63	72	82	92	102	114	125	130	150		
15.2	50	9	15	21	28	34	41	48	56	63	71	80	89	92	100	110	130		
16.8	55	8	14	19	25	31	37	43	50	56	63	71	74	80	90	100			
18.3	60	7	12	17	22	28	33	39	45	51	57	60	65	70	80	90			
21.3	70	6	10	14	19	23	28	32	37	42	47	48	55	60	70	80			
24.4	80	5	9	12	16	20	24	28	32	36	39	45	50	55	60	70			
27.4	90	4	7	11	14	17	21	24	28	30	35	40	45	50	60	70			
30.5	100	4	6	9	12	15	18	21	25	30	35	40	45	50	60	70			
33.5	110	3	6	8	11	14	16	19	20	25	30	35	40	45	50	60			
36.6	120	3	5	7	10	12	15	18	20	25	30	35	40	45	50	60			
39.6	130	2	4	6	9	10	15	20	25	30	35	40	45	50	60	70			

GROUP LETTER	fsw												
	40	45	50	55	60	70	80	90	100	110	120	130	msw
A	13	12	11	10	9	8	7	6	5	5	5	4	13
B	150	113	81	64	51	40	32	24	20	15	10	6	107
C	21	18	17	15	14	12	10	9	8	8	7	6	107
D	29	25	23	20	19	16	14	12	11	10	9	9	100
E	37	32	29	26	24	20	18	16	14	13	12	11	100
F	45	40	35	32	29	25	22	19	17	16	14	14	99
G	55	48	42	38	35	29	25	22	20	18	18	2	99
H	64	56	49	44	40	34	29	26	23	23	2	2	99
I	74	64	57	51	46	39	33	29	1	1	1	1	89
J	85	73	65	58	52	44	38	1	1	1	1	1	89
K	97	83	73	65	58	1	1	1	1	1	1	1	89
L	109	93	81	72	1	1	1	1	1	1	1	1	89
M	122	104	90	1	1	1	1	1	1	1	1	1	89
N	136	115	27	10	1	1	1	1	1	1	1	1	89
O	152	11	1	1	1	1	1	1	1	1	1	1	89
Z	11	1	1	1	1	1	1	1	1	1	1	1	89

GROUP LETTER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
A	2:20	3:36	4:31	5:23	6:15	7:08	8:00	8:52	9:44	10:36	11:29	12:21	13:13	14:05	14:58	15:50
B	1:16	2:11	3:03	3:55	4:48	5:40	6:32	7:24	8:16	9:09	10:01	10:53	11:45	12:37	13:30	14:22
C	:55	1:47	2:39	3:31	4:23	5:16	6:08	7:00	7:52	8:44	9:37	10:29	11:21	12:13	13:05	13:57
D	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
E	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
F	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
G	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
H	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
I	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
J	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
K	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
L	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
M	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
N	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
O	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55
Z	:52	1:44	2:37	3:29	4:21	5:13	6:06	6:58	7:50	8:42	9:34	10:27	11:19	12:11	13:03	13:55

CHART 3 – REPETITIVE DIVE TIME

00 RED NUMBERS (TOP) ARE RESIDUAL NITROGEN TIMES (RNT)
 00 BLACK NUMBERS (BOTTOM) ARE ADJUSTED NO-STOP REPETITIVE DIVE TIMES
 ACTUAL DIVE TIME SHOULD NOT EXCEED THIS NUMBER

CHART 2 – SURFACE INTERVAL TIME

Time Ranges in hours: minutes
 Enter Chart 2 from the top,
 move down to find surface interval time,
 move left to find the next repetitive group letter.

