

LONG BEACH FIRE DEPARTMENT
Marine Safety Division

TRAINING ACTION PLAN

C-Shift Missing Diver



Operational Period

Date From: 09/26/2024
Time From: 0800 Hours

Date To: 09/26/2024
Time To: 1300 Hours

Approved By Incident Commander:

Rank, First Initial, Last Name

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name:	2. Operational Period: Date From: _____ Date To: _____ Time From: _____ Time To: _____																
3. Objective(s):																	
4. Operational Period Command Emphasis:																	
General Situational Awareness																	
5. Site Safety Plan Required? Yes ☐ No ☐ Approved Site Safety Plan(s) Located at:																	
6. Incident Action Plan (the items checked below are included in this Incident Action Plan): <table style="width: 100%; border: none;"><tr><td style="width: 33%;">☐ ICS 203</td><td style="width: 33%;">☐ ICS 207</td><td style="width: 34%;"><u>Other Attachments:</u></td></tr><tr><td>☐ ICS 204</td><td>☐ ICS 208</td><td>☐ _____</td></tr><tr><td>☐ ICS 205</td><td>☐ Map/Chart</td><td>☐ _____</td></tr><tr><td>☐ ICS 205A</td><td>☐ Weather Forecast/Tides/Currents</td><td>☐ _____</td></tr><tr><td>☐ ICS 206</td><td></td><td>☐ _____</td></tr></table>			☐ ICS 203	☐ ICS 207	<u>Other Attachments:</u>	☐ ICS 204	☐ ICS 208	☐ _____	☐ ICS 205	☐ Map/Chart	☐ _____	☐ ICS 205A	☐ Weather Forecast/Tides/Currents	☐ _____	☐ ICS 206		☐ _____
☐ ICS 203	☐ ICS 207	<u>Other Attachments:</u>															
☐ ICS 204	☐ ICS 208	☐ _____															
☐ ICS 205	☐ Map/Chart	☐ _____															
☐ ICS 205A	☐ Weather Forecast/Tides/Currents	☐ _____															
☐ ICS 206		☐ _____															
7. Prepared by: Name: _____ Position/Title: _____ Signature: _____																	
8. Approved by Incident Commander: Name: _____ Signature: _____																	
ICS 202	IAP Page _____	Date/Time: _____															

1. Incident Name:	2. Date/Time Prepared:	3. Operational Period:	
	Date:	Date From:	Date To:
	Time:	Time From:	Time To:

[illegible]

ICS 205 IAP Page ____ Date/Time: _____

MEDICAL PLAN (ICS 206)

1. Incident Name:		2. Operational Period: Date From: _____ Time From: _____		Date To: _____ Time To: _____			
3. Medical Aid Stations:							
Name	Location	Contact Number(s)/Frequency	Paramedics on Site?				
			☐ Yes ☐ No				
			☐ Yes ☐ No				
			☐ Yes ☐ No				
			☐ Yes ☐ No				
			☐ Yes ☐ No				
			☐ Yes ☐ No				
4. Transportation (indicate air or ground):							
Ambulance Service	Location	Contact Number(s)/Frequency	Level of Service				
			☐ ALS ☐ BLS				
			☐ ALS ☐ BLS				
			☐ ALS ☐ BLS				
			☐ ALS ☐ BLS				
5. Hospitals:							
Hospital Name	Address, Latitude & Longitude if Helipad	Contact Number(s)/Frequency	Travel Time		Trauma Center	Burn Center	Helipad
			Air	Ground			
					☐ Yes Level: _____	☐ Yes ☐ No	☐ Yes ☐ No
					☐ Yes Level: _____	☐ Yes ☐ No	☐ Yes ☐ No
					☐ Yes Level: _____	☐ Yes ☐ No	☐ Yes ☐ No
					☐ Yes Level: _____	☐ Yes ☐ No	☐ Yes ☐ No
					☐ Yes Level: _____	☐ Yes ☐ No	☐ Yes ☐ No
6. Special Medical Emergency Procedures:							
☐ 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: _____							
ICS 206		IAP Page _____		Date/Time: _____			

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 ☐ No ☐ 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: 09-26-2024

Location: Platform Elly

Dive Supervisor: Williams

Depth: 40'	Visibility: 20+' ☐ Wet ☒ Dry ☐ RDU	Temp: 64 Deg ☒ SCUBA ☒ Surface Comms
Equipment:	☐ Wet ☒ Dry ☐ RDU	☒ SCUBA ☒ Surface Comms
Dive Type:	Deep Dive	
Hazards:	☒ Entanglement ☒ Overhead Environment ☐ Pollution ☒ Strong Current ☒ Other: Bottomless Dive	

Dive 1 Time:1000

Divers: Williams, Farnell RIC: Wetteland, Balsillie		
Start P.G.:	A	
Depth:	40 Ft.	
Bottom Time:	20 Min.	
Safety Stop:		
End P.G.:	B	
Surface Interval:		
Coverage:		Bay Beach

Dive 2 Time:1100

Divers: Wetteland, Balsillie RIC: McColl, Jimenez		
Start P.G.:	A	
Depth:	40 Ft.	
Bottom Time:	20 Min.	
Safety Stop:		
End P.G.:	B	
Surface Interval:		
Coverage:		Bay Beach

Dive 3 Time: 1145

Divers: Divers: McColl, Jimenez RIC: RIC: Balsillie, Farnell		
Start P.G.:	A	
Depth:	40 Ft.	
Bottom Time:	20 Min.	
Safety Stop:		
End P.G.:	B	
Surface Interval:		
Coverage:		Bay Beach

Notifications: ☐ USCG (310) 521-3815

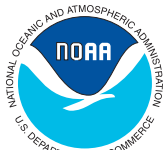
☐ Catalina Hyperbaric Chamber (310) 510-4020

Dive Description/Sketch: Missing Diver at Platform Elly

Objectives:

- This drill is to simulate searching for a missing diver last seen on the 40' structural frame
- Controlled descent down assigned piling to 40' structural frame
- Communicate with top-side on visibility and depth
- Conduct search around perimeter of structure within the outer pilings maintaining contact with the 40 foot platform
- Conduct search in and around pilings
- When diver is located, communicate findings to top-side
- Return to the original assigned piling with the missing diver and complete a controlled ascent to surface
- Reset

Coverage Assignments:



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.

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

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

DEPTH		DIVE TIME REQUIRING DECOMPRESSION STOP																00	
		MINUTES REQUIRED AT 20 fsw (6.1 msw)																00	
		NO-STOP TIME																00	
msw	fsw	12.2	13.7	15.2	16.8	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	40	45	50	55	60	65
12.2	40	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	180	14	14
13.7	45	11	17	24	31	39	46	55	63	72	82	92	102	114	125	130	150	2	25
15.2	50	9	15	21	28	34	41	48	56	63	71	80	89	92	100	110	130	4	34
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	74	80	90	100	4	17
21.3	70	6	10	14	19	23	28	32	37	42	47	48	55	60	70				
24.4	80	5	9	12	16	20	24	28	32	36	39	45	48	50	60				
27.4	90	4	7	11	14	17	21	24	28	30	35	40	45	48					
30.5	100	4	6	9	12	15	18	21	25	28	33	38	43	48					
33.5	110	3	6	8	11	14	16	19	20	25	30	35	40	45					
36.6	120	3	5	7	10	12	15	18	20	25	30	35	40	45					
39.6	130	2	4	6	9	10	15	18	20	25	30	35	40	45					

fsw		40	45	50	55	60	70	80	90	100	110	120	130	GROUP LETTER
msw		12.2	13.7	15.2	16.8	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	
REPETITIVE DIVES SHALLOWER THAN 40 FSW (12.2 MSW) ARE TO USE THE 40 FSW (12.2 MSW) REPETITIVE SCHEDULE	13	12	11	10	9	8	7	6	5	5	5	4	4	◀A
	150	113	81	64	51	40	32	24	20	15	10	6	6	◀B
	21	18	17	15	14	12	10	9	8	8	7	6	6	◀C
	142	107	75	59	46	36	29	21	17	12	8	4	4	◀D
	29	25	23	20	19	16	14	12	11	10	9	9	9	◀E
	134	100	69	54	41	32	25	18	14	10	6	1	1	◀F
	37	32	29	26	24	20	18	16	14	13	12			◀G
	126	93	63	48	36	28	21	14	11	7	3			◀H
	45	40	35	32	29	25	22	19	17	16	14			◀I
	118	85	57	42	31	23	17	11	8	4	1			◀J
	55	48	42	38	35	29	25	22	20	18				◀K
	108	77	50	36	25	19	14	8	5	2				◀L
	64	56	49	44	40	34	29	26	23					◀M
	99	69	43	30	20	14	10	4	2					◀N
	74	64	57	51	46	39	33	29						◀O
	89	61	35	23	14	9	6	1						◀P

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
2:20 :10	3:36 1:17	4:31 2:12	5:23 3:04	6:15 3:56	7:08 4:49	8:00 5:41	8:52 6:33	9:44 7:25	10:36 8:17	11:29 9:10	12:21 10:02	13:13 10:54	14:05 11:46	14:58 12:38	15:50 13:31
1:16 :10	2:11 :56	3:03 1:48	3:55 2:40	4:48 3:32	5:40 4:24	6:32 5:17	7:24 6:09	8:16 7:01	9:09 7:53	10:01 8:45	10:53 9:38	11:45 10:30	12:37 11:22	13:30 12:14	
		:55 :10	1:47 :53	2:39 1:45	3:31 2:38	4:23 3:30	5:16 4:22	6:08 5:14	7:00 6:07	7:52 6:59	8:44 7:51	9:37 8:43	10:29 9:35	11:21 10:28	12:13 11:20
			:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43	10:27 9:35	11:19 10:28
				:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43	10:27 9:35
					:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43
						:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51
							:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59
								:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07
									:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14
										:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22
											:52 :10	1:44 :53	2:37 1:45	3:29 2:38	4:21 3:30
												:52 :10	1:44 :53	2:37 1:45	3:29 2:38
													:52 :10	1:44 :53	2:37 1:45
														:52 :10	1:44 :53
															:52 :10

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.

PUBLIC SAFETY DIVE TEAM REPETITIVE DIVE LOG

Date: September 26, 2024

Location: Platform Elly

Dive Supervisor: Williams

Tables Used: Noaa

Type: Dive Drill

Dive Description: Missing Dive

[illegible]

[illegible]