

**EXHIBIT G**

**California State Lands Commission Presurvey Notice Requirements for  
Permittees to Conduct Geophysical Survey Activities**

All parts of the Presurvey Notice must be adequately filled out and submitted to the CSLC staff a minimum of twenty-one (21) calendar days prior to the proposed survey date to ensure adequate review and approval time for CSLC staff. Note that one or more of the items may require the Permittee to plan well in advance in order to obtain the necessary documentation prior to the Notice due date (e.g., permits from other State or Federal entities).

Please use the boxes below to verify that all the required documents are included in the Presurvey Notice. If "No" is checked for any item, please provide an explanation in the space provided. If additional space is needed, please attach separate pages.

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Geophysical Survey Permit Exhibit F
<input type="checkbox"/>	<input type="checkbox"/>	Survey Location (including a full-sized navigation chart and GPS coordinates for each proposed track line and turning point) Explanation: _____
<input type="checkbox"/>	<input type="checkbox"/>	Permit(s) or Authorization from other Federal or State agencies (if applicable) Explanation: _____
<input type="checkbox"/>	<input type="checkbox"/>	21-Day Written Notice of Survey Operations to Statewide Geophysical Coordinator/
<input type="checkbox"/>	<input type="checkbox"/>	U.S. Coast Guard Local Notice to Mariners/
<input type="checkbox"/>	<input type="checkbox"/>	Harbormaster and Dive Shop Notifications Explanation: _____
<input type="checkbox"/>	<input type="checkbox"/>	Marine Wildlife Contingency Plan Explanation: _____
<input type="checkbox"/>	<input type="checkbox"/>	Oil Spill Contingency Plan Explanation: _____
<input type="checkbox"/>	<input type="checkbox"/>	Verification of California Air Resources Board's Tier 2-Certified Engine Requirement Explanation: _____
<input type="checkbox"/>	<input type="checkbox"/>	Verification of Equipment Service and/or Maintenance (must verify sound output) Explanation: _____
<input type="checkbox"/>	<input type="checkbox"/>	Permit(s) or Authorization from California Department of Fish and Wildlife for surveys in or affecting Marine Protected Area(s) (if applicable) Explanation: _____

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NOTE: CSLC staff will also require verification that current biological information was obtained and transmitted as outlined in Section 5 of this permit.

## EXHIBIT F

### PRESURVEY NOTIFICATION FORM

Applicant/Permittee's Mailing Address \_\_\_\_\_  
\_\_\_\_\_

Jurisdiction: Federal \_\_\_\_\_ State \_\_\_\_\_ Both \_\_\_\_\_  
If State: Permit #PRC \_\_\_\_\_  
Region: \_\_\_\_\_  
Area: \_\_\_\_\_

Date: \_\_\_\_\_

### GEOPHYSICAL SURVEY PERMIT

Check one: \_\_\_\_\_ New survey \_\_\_\_\_ Time extension of a previous survey

\_\_\_\_\_ (Applicant/Permittee) will conduct a geophysical survey offshore California in the survey area outlined on the accompanying navigation chart segment. If you foresee potential interference with commercial fishing or other activities, please contact the person(s) listed below:

#### FEDERAL WATERS (outside 3 nautical miles)

- 1) Applicant's representative
- 2) Federal representative (e.g., Bureau of Ocean Energy Management [BOEM] or National Science Foundation [NSF])

NOTE: Any comments regarding potential conflicts in Federal waters must be received by the Applicant's Representative and lead Federal agency within ten (10) days of the receipt of this notice.

#### STATE WATERS (Inside 3 nautical miles)

- 1) Permittee's representative
- 2) CSLC representative

NOTE: Any comments regarding potential conflicts in State waters should be received as soon as possible by the Permittee's representative, no more than fifteen (15) days after the receipt of this notice.

1. Expected Date of Operation \_\_\_\_\_
2. Hours of Operation \_\_\_\_\_
3. Vessel Name \_\_\_\_\_
4. Vessel Official Number \_\_\_\_\_
5. Vessel Radio Call Sign \_\_\_\_\_
6. Vessel Captain's Name \_\_\_\_\_
7. Vessel will monitor Radio Channel(s) \_\_\_\_\_
8. Vessel Navigation System \_\_\_\_\_

9. Equipment to be used \_\_\_\_\_
- a. Frequency (Hz, kHz) \_\_\_\_\_
  - b. Source level (dB re 1  $\mu$ Pa at 1 meter (m) [root mean square (rms)]) \_\_\_\_\_
  - c. Number of beams, across track beamwidth, and along track beamwidth \_\_\_\_\_  
\_\_\_\_\_
  - d. Pulse rate and length \_\_\_\_\_
  - e. Rise time \_\_\_\_\_
  - f. Estimated distances to the 190 dB, 180 dB, and 160 dB re 1  $\mu$ Pa (rms) isopleths \_\_\_\_\_  
\_\_\_\_\_
  - g. Deployment depth \_\_\_\_\_
  - h. Tow speed \_\_\_\_\_
  - i. Approximate length of cable tow \_\_\_\_\_

Applicant's Representative:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

California State Lands Representative  
 Richard B. Greenwood  
 Statewide Geophysical Coordinator  
 200 Oceangate, 12th Floor  
 Long Beach, CA 90802-4331  
 (562) 590-5201

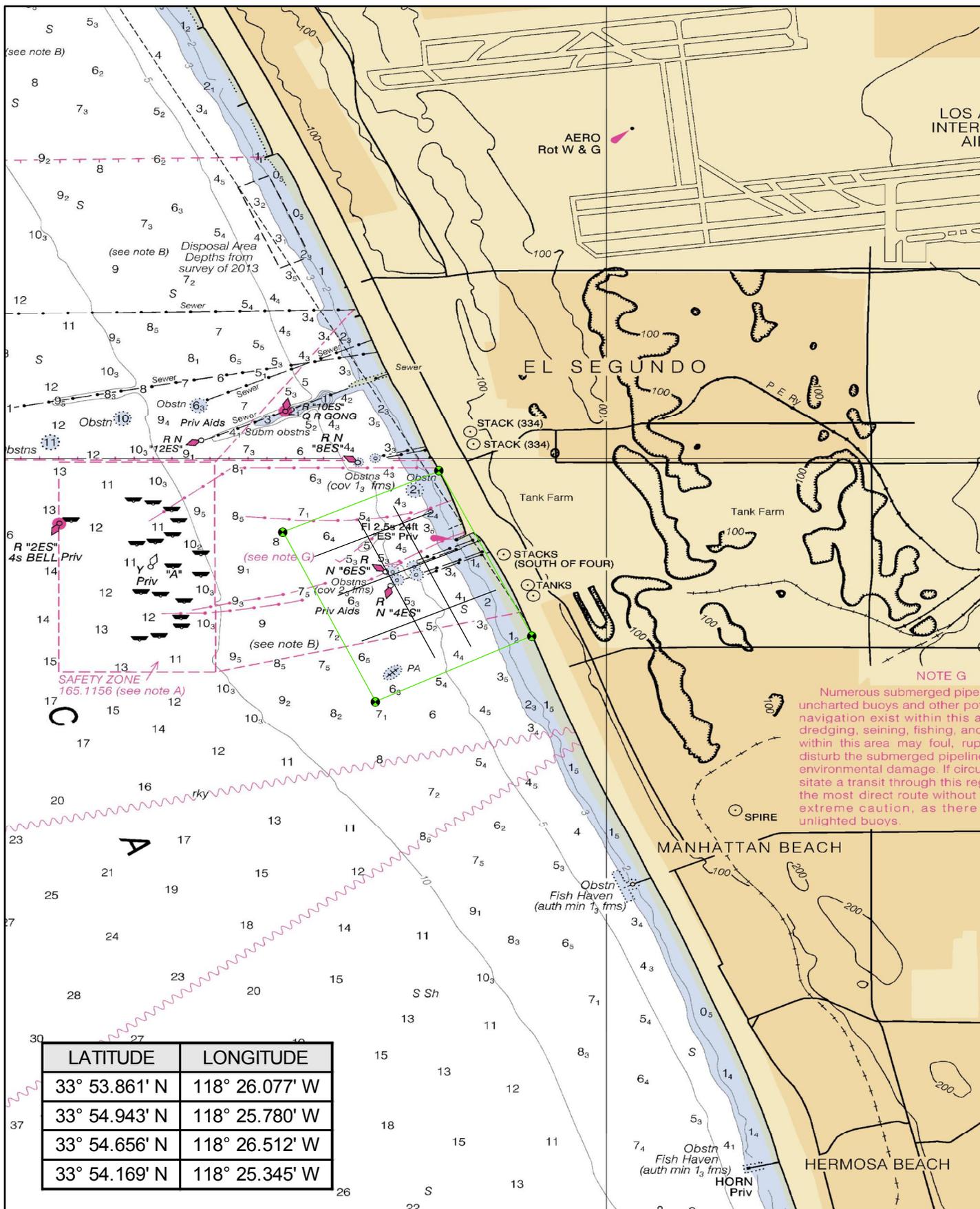
BOEM Representative  
 Joan Barminski  
 Regional Supervisor  
 Office of Strategic Resources  
 770 Paseo Camarillo  
 Camarillo, CA 93010  
 (805) 389-7585

Other Federal Representative (if not BOEM):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# NOAA Nautical Chart 18744 with Proposed Survey Area

Sub-Bottom Survey Notice  
Offshore El Segundo, California





**TELEDYNE**  
**ODOM HYDROGRAPHIC**  
 A Teledyne Technologies Company

**ETCV100**



Date	06/23/2014
Serial #	003241

Power Supply (2417-0001-REVC)

Input Voltage (DC +24V)	√
+12V (TP8)	√
+24V (J3 Pin 1, 3)	√
+5V (J3 Pin 2, 4)	√

Communication (2416-0019-REVA)

+5V (TP2)	√
+24V (TP1)	√

Transceiver Board (2416-0012-REVB)

+12V (TP1)	√
-12V (TP5)	√
-5V (TP4)	√
+5V (TP2)	√

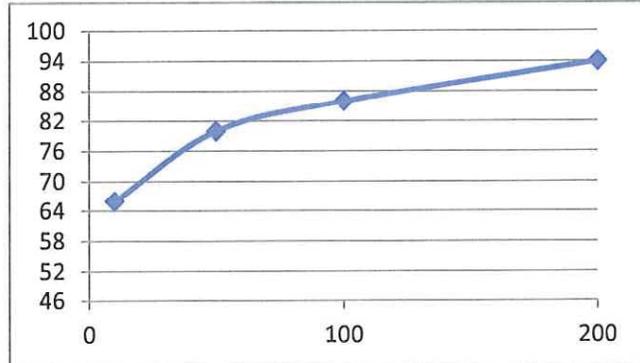
Communications

Com 1 (Depth I/O)	√
Com 2 (Remote)	√
Com 3 (GPS In)	√
Com 4 (Heave)	√
Ethernet	√

Reverse Polarity Alarm	√
Total Burn In Time	24 Hrs Minimum

Receiver Sensitivity

High Freq	200	KHz
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High Frequency Transmit Power (50ohm)

Settings	Low (1)	Med (6)	High (12)
Ch1	16.25V	80.62V	310.90V

Board Identification	SN	SW Ver
Ethernet / Comm I/O	11278	
Communications CPU	13092	4.09
Power Supply	13091	
High Freq Transceiver	12099	1.22
High Freq DSP	12224	4.02



*Captal  
 Braswell  
 6/23/2014*

# M/V Theory

## QSB5.9 for Recreational Marine - Cummins Engines

MANUFACTURED BY CUMMINS INC. FOR CUMMINS MERCUISER DIESEL, LLC			Engine No. 46882493	EPA		WARNING: Injury may warranty is voided if fuel altitudes exceed publish values for this model and
Assembled in the U.S.A			Family 8CEXM0359AAA	NOx+ 7.2 THC	NOx+ THC	
Date of Mfg. 04-07-08	Model QSB5.9-355 INT	Catalyst No.	0.30 PM	PM	IMPORTANT ENGINE INFORMATION marine compression ignition en conforms with the NOx require MARPOL 73/78 Annex VI, Regu only.	
CPL 8464	L / CYL 1.0	C.I.D./L 359 / 5.9	Inj. Set	Advertised HP 355 at 2800 rpm		
Fuel Rate at adv. HP	138	mm <sup>3</sup> / Stroke	Firing Order 1 5 3 6 2 4	Valve lash cold 0.010 Int. 0.020 Exh.		
Ref. No. 4018966			IMO Family M10QTA	Inj. Timing Code ELECTRONIC		
E.C.S.	Governed Speed (rpm)		0			

**THEORY PORT**

MANUFACTURED BY CUMMINS INC. FOR CUMMINS MERCUISER DIESEL, LLC			Engine No. 46882495	EPA		WARNING: warranty is altitudes ex values for t
Assembled in the U.S.A			Family 8CEXM0359AAA	NOx+ 7.2 THC	NOx+ THC	
Date of Mfg. 04-07-08	Model QSB5.9-355 INT	Catalyst No.	0.30 PM	PM	IMPORTANT E marine compr conforms with MARPOL 73/ only.	
CPL 8464	L / CYL 1.0	C.I.D./L 359 / 5.9	Inj. Set	Advertised HP 355 at 2800 rpm		
Fuel Rate at adv. HP	138	mm <sup>3</sup> / Stroke	Firing Order 1 5 3 6 2 4	Valve lash cold 0.010 Int. 0.020 Exh.		
Ref. No. 4018966			IMO Family M10QTA	Inj. Timing Code ELECTRONIC		
E.C.S.	Governed Speed (rpm)		0			

**THEORY STARBOARD**



# QSB5.9

## QUANTUM SERIES ENGINE

### Features

**Fuel System:** Bosch High-Pressure Common-Rail, Front mounted spin-on Fleetguard fuel filter

**Lubrication System:** Front mounted spin-on Fleetguard lube filter

**Electrical System:** 12-volt and 24-volt systems available

**Air Intake System:** Light duty or servicable type air cleaner

**Coolant System:** Sea Water heat exchanger cooling system; Keel cooled system available

**Emissions:** EPA Tier 2, IMO, and RCD certified

**Breather System:** Open or closed

**Engine Updates:** Optional dry run SW pump and an alternate fuel capability (JP8, JP5)

### Engine Overview

- Unmatched performance driven through a perfectly matched turbocharger and a new 24-valve cylinder head that delivers industry-leading power density
- Quiet operation, including an 80-percent reduction in noise at idle, is one of the many benefits from the common-rail fuel system
- Enhanced sociability from the high-pressure common-rail design virtually eliminates smoke and improves the whole boating experience
- Maximize vessel performance and access comprehensive vessel diagnostic information via SmartCraft® electronics
- Peace of mind delivered by the Cummins Captain's Briefing and global service network

### Engine Specifications

Configuration	In-line 6-cylinder, 4-stroke diesel
Bore & Stroke	102 mm x 120 mm (4.02 in x 4.72 in)
Displacement	5.9 L (359 in <sup>3</sup> )
Aspiration	Turbocharged / Aftercooled
Rotation	Counterclockwise facing flywheel



### Power Ratings

Rating	HO/GS	HO	ID/HO	HO/GS	ID/HO	HO	MD/HO	HD/HO	ID/HO
Metric hp	480	440	425	380	355	330	305	230	230
bhp	472	436	420	375	350	325	300	225	227
KW	352	325	313	280	261	243	224	168	169
Rated rpm	3400	3400	3000	3000	2800	2800	2600	2600	3000
Max Torque ft-lbs	942	913	908	898	853	830	783	670	510
Max Torque N-m	1278	1238	1231	1218	1156	1125	1062	908	691
rpm @ max torque	2200	2000	2000	2000	2000	1800	1800	1600	1600

Ratings and specifications subject to change without notice. Not responsible for typographical errors.

# QSB5.9 QUANTUM SERIES ENGINE

## Fuel Consumption (Prop Curve)

Rating	QSB5.9 - 480 HO/GS				QSB5.9 - 440 HO				QSB5.9 - 425 ID/HO				QSB5.9 - 380 HO/GS				QSB5.9 - 355 ID/HO			
rpm	3400	3200	3000	2800	3400	3200	3000	2800	3000	2800	2600	2400	3000	2800	2600	2400	2800	2600	2400	2200
KW	352	348	340	334	325	319	318	310	313	307	299	292	280	279	281	271	261	259	256	254
l/hr	97.4	79.1	62.8	52	90.6	72.8	58.7	48.6	81.3	65.5	53	43.4	76.2	60.6	48.1	39.5	68.1	55.2	44.3	36.2
bhp	472	466	456	448	436	427	426	416	420	411	401	391	375	374	377	364	350	347	343	340
gal/hr	25.7	20.9	16.6	13.7	23.9	19.2	15.5	12.8	21.5	17.3	14	11.5	20.1	16	12.7	10.4	18	14.6	11.7	9.6

Rating	QSB5.9 - 330 HO				QSB5.9 - 305 MD/HO				QSB5.9 - 230 HD/HO				QSB5.9 - 230 ID/HO			
rpm	2800	2600	2400	2200	2600	2400	2200	2000	2600	2400	2200	2000	3000	2800	2600	2400
KW	243	238	240	238	224	221	222	213	168	162	167	165	169	168	162	217
l/hr	63.3	50.8	41.6	33.5	57.3	47	37.9	30.8	42.2	36.8	29.7	23.3	47	40	33	26.8
bhp	325	319	321	320	300	296	287	286	225	217	225	222	227	226	217	207
gal/hr	16.7	13.4	11	8.9	15.1	12.4	10	8.1	11.1	9.7	7.9	6.1	12.5	10.6	8.7	7.1

Fuel consumption data represents performance along a 2.7 fixed pitch propeller curve (for HO, ID, MCD, 3.0 for HD and CON ratings). Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ±5% of rated horsepower. Consult your local Cummins professional for further information.

## Engine Dimensions

Length		Width		Height		Weight (Dry)*	
mm	in	mm	in	mm	in	kg	lb
1036	40.8	836	32.9	880	34.6	612	1350

\*Does not include exhaust connection. Weights vary by rating. Length to flywheel housing. Length measured from back of flywheel to engine front. Overall height includes dipstick.



## Available Accessories

**Engine Controls:** Digital Throttle and Shift; Electronic Throttle and Shift (ETS) and optional potentiometer for mechanical controls

**Instrumentation:** SmartCraft® 2.2 digital displays and/or analog gauges provide data on engine speed, oil pressure, engine load and more

**Vessel System Integration:** SmartCraft® 2.2 monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more

## Ratings Definitions

**Heavy Duty (HD):** Intended for nearly continuous use in variable load applications, where full power is limited to eight hours out of every ten hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 5000 hours per year.

**Medium Continuous (MD):** Intended for moderate use in variable load applications, where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 3000 hours per year.

**Intermittent (ID):** Intended for intermittent use in variable load applications, where full power is limited to two hours out of every eight hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 1500 hours per year.

**Government Service (GS):** Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm). Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are restricted to non-revenue generating government service propulsion applications. It is not to be used in any revenue generating commercial applications, nor is it to be used in recreational/pleasure applications

**High Output (HO):** Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise speed (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm). Refer to Table 1 below. For applications operating less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

**Rating Conditions:** Declared power ratings are based upon ISO 15550 reference conditions/ air pressure of 100kPa (29.612 in Hg) air temperature of 25° C (77°F) and 30% relative humidity. Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

Table 1

Rated Speed	Cruise Speed (reduction from rated)
2000 to 2800 rpm	200 rpm
2801 to 3500 rpm	300 rpm
3501 to 4500 rpm	400 rpm

*Ratings and specifications subject to change without notice. Not responsible for typographical errors.*



Cummins Inc.  
4500 Leeds Avenue - Suite 301  
Charleston, SC 29405-8539  
U.S.A.

Bulletin 4087251 Printed in U.S.A. 5/12  
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## Notice of Survey Operations

**DEPARTMENT OF HOMELAND SECURITY  
UNITED STATES COAST GUARD  
COMMANDER, 11<sup>TH</sup> COAST GUARD DISTRICT**

Building 50-2 Coast Guard Island

Alameda, CA 94501-5100

LNM Point of Contact

BM1 John Hinson: 510-437-2980

[D11LNM@uscg.mil](mailto:D11LNM@uscg.mil)

- 1. Name of Contractor:** *FUGRO*
- 2. Type of Operation:** *Sub-bottom Survey*
- 3. Location / Position Information:** *Offshore El Segundo, California (See Attached Map)*
- 4. Start and End Dates:** *Start: Sept. 2, 2015, End: Sept. 11, 2015*
- 5. Vessel(s) Involved (include FCC Call Sign):** *R/V Theory*
- 6. Radio Yes / No, VHF Freq's Monitored:** *Yes, VHF 16*
- 7. Any other pertinent Info:** *The Theory will be towing a 100 foot streamer astern of the vessel. Operations will be conducted only during daylight hours.*
- 8. POC Name & Telephone Number(s):** *Cindy Pratt or Eddie Stutts (Fugro)  
805-650-7000*
- 9. Chart Number:** *18744*

### **SOUTHERN CALIFORNIA-SURVEY OPERATIONS – OFFSHORE EL SEGUNDO**

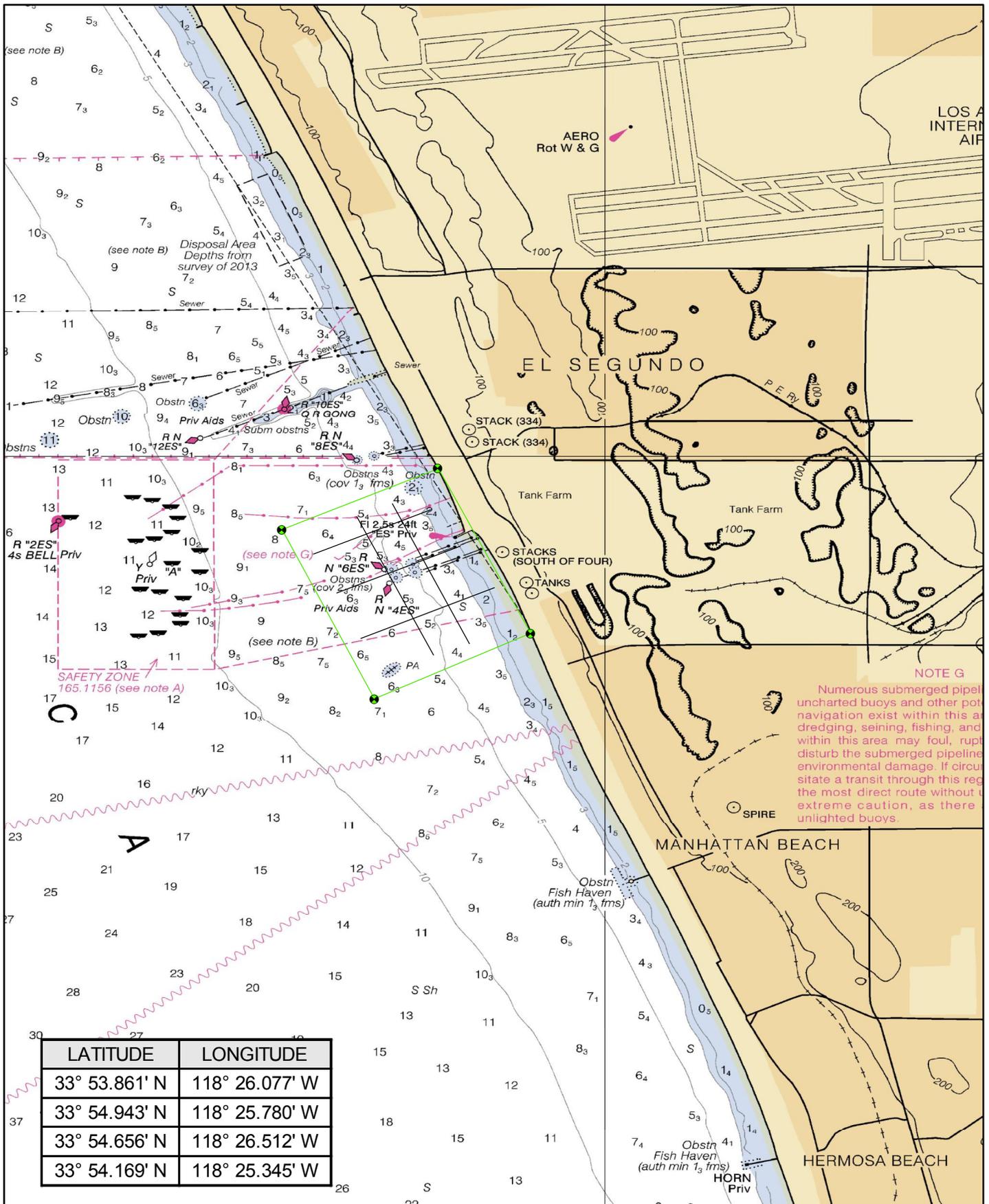
Fugro will be conducting a sub-bottom survey from the R/V Theory in the area outlined on the attached portion of Chart 18744. Operations will last approximately 1 day and be carried out between Sept. 2, 2015 and Sept. 11, 2015 during daylight hours only. The R/V Theory will be towing a 100 foot streamer during mapping operations. The survey area is outlined by the following coordinates.

LATITUDE	LONGITUDE
33° 53.861' N	118° 26.077' W
33° 54.943' N	118° 25.780' W
33° 54.656' N	118° 26.512' W
33° 54.169' N	118° 25.345' W

The vessel will have limited maneuverability during operations and mariners are advised to use due caution when transiting in the area. For more details or comments contact Eddie Stutts or Cindy Pratt at 805-650-7000.

# NOAA Nautical Chart 18744 with Proposed Survey Area

Sub-Bottom Survey Notice  
Offshore El Segundo, California



# FUGRO 2015 ON-BOARD SPILL CONTAINMENT AND CLEAN-UP PLAN

THIS PLAN IS FOR FUGRO PERSONNEL TO READ *BEFORE* A SPILL OCCURS --AND TO KEEP HANDY FOR REFERENCE DURING AN EMERGENCY.

↳ **THE KEY TO SPILL PROTECTION IS *EARLY* RESPONSE AND ACTION.**

THIS PLAN IS FOR ALL EMPLOYEES ON A VESSEL OR BARGE. IT OUTLINES THE COMPANY PRIORITIES, THE LOCATION OF SPILL RESPONSE EQUIPMENT, INSTRUCTIONS ON HOW TO RESPOND, DIRECTIONS TO EMERGENCY MEDICAL FACILITIES, AND NOTIFICATION NAMES AND PHONE NUMBERS.

## **SPILL RESPONSE**

### PRIORITIES

In the event of a spill, on-site personnel are in the best position to take prompt action to minimize and control the spill.

#### **Our company priorities are:**

1. Personnel Safety
2. Prevention of Fire or Explosion
3. Elimination of Spill Source
4. Containment of the Spill
5. Collection and Storage of Contaminated Debris and Materials
6. Notification of Spillage
7. Preparation of Reports

**SAFETY OF PERSONNEL IS ALWAYS OUR FIRST PRIORITY.**



## SPILL RESPONSE MEASURES

In case of an actual spill, take the following actions IF IT IS SAFE TO DO SO:

Call 911 for medical or fire emergency assistance if needed

Isolate and administer to injured persons if necessary

TAKE NECESSARY STEPS TO REDUCE THE RISK OF FIRE

- Turn off equipment, valves, or pumps
- Turn off or extinguish any sources of hot surfaces or flame

**STOP SPILL AT SOURCE IF SAFE AND POSSIBLE**

- Stop equipment leaks by crimping hoses, plugging holes, or isolating parts
- Upright turned over oil/grease or paint buckets
- Stop tank leaks by placing in additional containment or plugging hole

CONTAIN ON-DECK SPILL FROM SPREADING OVERBOARD

- Berm around spreading spill with absorbent material(rags, kitty litter, sock boom, etc)
- Apply granular absorbent(“kitty litter”) in sufficient quantity to soak up entire spill
- Wipe small spills with cotton rags

CONTAIN WATER-BORNE SPILLS TO AS SMALL AN AREA AS POSSIBLE

- Apply absorbent pads to spilled material
- Deploy oil boom/absorbent sock boom

☞ **IF SPILL IS LARGE, CALL THE FUGRO SUPERINTENDENT OR VICE PRESIDENT AS SOON AS POSSIBLE.**

☞ **FOR IMMEDIATE DEPLOYMENT OF LARGE OIL BOOM, CALL ONE OF THE FOLLOWING COMPANIES.**

- Clean Seas, LLC (805) 684-3838
- Marine Spill Response Corporation (MSRC) Tel: (510) 478-0702
- National Response Corporation (NRC) Tel: (562) 506-2060
- Patriot Environmental Services (562) 244-2204
- Foss Maritime or another closer response team and request response to clean up the fuel

CLEAN UP SPILL AND USED SPILL MATERIALS

- Gather soaked rags, absorbents, boom and dirt
- Place in leak proof containers for storage and disposal



## **EMPLOYEE TRAINING ON OIL SPILL CONTINGENCY PLAN**

Prior to the departure of the vessel for any activities, all Captain and crew members on the vessel will have read the Oil Spill Contingency Plan, understand procedures to be implemented in the event of an oil spill, and know where the oil spill kit is located on the vessel.

## **EMERGENCY EQUIPMENT**

### **LOCATION**

As part of each job start-up safety meeting, the spill containment and cleanup material will be discussed and verified.

### **EQUIPMENT**

The Spill Containment and Cleanup Materials include:

- 1 Box of 20 Gloves: in spill kit box located in front compartment of vessel
- 2 pair Goggles: in spill kit box located in front compartment of vessel
- 1 Box of Rags: in spill kit box located in front compartment of vessel
- 1 Box of 20 Garbage bags: in spill kit box located in front compartment of vessel
- 30 each Absorbent pads: spill kit box located in front compartment of vessel
- 1 Small Oil Boom: located on back deck
- 1 12lb Bag Granular absorbent (“kitty litter”): located in front compartment of vessel
- 1 Shovel: located on back deck

**FIRE EXTINGUISHERS ARE MOUNTED ON ALL VESSELS, PICKUP TRUCKS AND THERE IS ONE IN THE OFFICE. THE FIRE EXTINGUISHER WILL BE CHECKED FOR EXPIRATION DATE AND THE LOCATION DISCUSSED AT EACH SAFETY MEETING.**

## **INVENTORY & RESTOCKING**

The on-board spill containment and cleanup materials are inventoried by the Foreman at the start of every job, at least monthly and after a spill response. Depleted items are to be reported to the Superintendent or any member of the office staff. Items are to be ordered immediately and restocked promptly.



## **NOTIFICATIONS**

In case of a spill, notify a Fugro 24 hour representative (see addendum 1 for names and phone numbers).

GIVE THE FOLLOWING INFORMATION TO THE BEST OF YOUR ABILITY:

- Your name
- Location
- Date of spill
- Time of spill
- Substance spilled
- Quantity spilled
- Potential for continued spill
- Possible health hazard
- Source of spill
- Actions taken
- Threatened resources/utilities

THE ENVIRONMENTAL COORDINATOR WILL:

- Notify the applicable local, state and federal authorities
- Coordinate and disseminate information to the media
- Handle the legal obligations and responsibilities of the company





## **Addendum 1**

# **Emergency Notification**

## **PHONE LIST**

**Fugro , Inc.**  
Office

805-650-7000

**California State Lands Commission**  
24-Hour Emergency Number

562-590-5201

**Fire Emergency**

**911**

**911**

**Medical Emergency**

**911**

**911**





## Addendum 2

### Guide for Fugro Management

1. Call for outside assistance if appropriate for the spill.
2. Call the Company Environmental and Safety Coordinator to coordinate the legal notifications and media inquiries:
3. If there is an **actual** release to the environment, the U.S. EPA Emergency Response Program requires notification to **one** of the following organizations:

<b>NATIONAL RESPONSE CENTER</b>	1-800-424-8802
<b>U.S. COAST GUARD MARINE SAFETY OFFICE</b>	1-510-437-3073
	1-510-437-3074

4. Other organizations that may be involved:

U.S. EPA Hazardous Waste	1-415-744-2000
California Office of Emergency Services	1-800-852-7550
Additional number	1-916-427-4287
State of California Water Quality	1-510-286-1255
State of California Fish & Game	1-707-944-5512
After hours and weekends	1-916-445-0045
Vessel Traffic	1-415-556-2760
Ca Oiled Wildlife Care Network	1-916-445-0045

5. The information that will be requested is attached as Addendum # 6.



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**Addendum 3**

**Fugro ,Owner, and Management Information**

**Fugro Environmental and Safety Coordinator**

Jeffery Ripper                      858-427-2017

**Officers of the Corporation**

Robin Villa                              805-815-5812

Eddie Stutts                              805-432-2213



## Addendum 4

### OPERATIONAL INFORMATION

#### NORMAL OPERATIONS

We contract with public and private entities to conduct high resolution low energy geophysical and geotechnical engineering surveys.

To accomplish this work, we purchase equipment, tools, material, and supplies which are gathered at various mobilization sites and loaded onto vessels and barges which are berthed alongside a dock. When needed tugboats move barges to and from the jobsites. At the completion of projects, the reverse process takes place - unloading equipment, materials, tools, and supplies.

#### POTENTIAL SPILLS DUE TO NORMAL OPERATIONS

##### **Oil, grease, fuel, or hydraulic fluid leak from machinery or equipment**

Cranes, winches, generators, light plants and boats require fluids to operate.

- Fluids could leak onto the vessel or into the water

##### **Oil, grease, or fuel spill from storage**

Oil and grease are stored in the vessels and/or barges in 5 gallon or smaller plastic buckets.

- Buckets could be dropped or punctured in transport

Fuel is stored in steel tanks housed on the vessels.

- Tanks could be punctured by sharp objects

##### **Paint spill**

Paint is generally purchased and utilized as needed. If extra is kept, one gallon pails and spray cans could be stored below deck.

- Pails could be punctured or tipped over during use





## **Addendum 5**

### **PRODUCT USAGE INFORMATION**

#### CHEMICALS AND FUELS (DESCRIPTION & QUANTITIES)

MSDS sheets are available on the vessel, and the Fugro office.

Oil	< 4 quarts
Gasoline	< 100 gallons





## **Addendum 6**

### **SPILLS RESULTING FROM VESSEL FUELING**

All vessel fueling will be conducted on land at a gas station or at an approved docking facility. No cross vessel fueling will be performed.





ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

## **MARINE WILDLIFE CONTINGENCY PLAN**

### **BATHYMETRIC AND SUB-BOTTOM PROFILING SURVEY OFFSHORE EL SEGUNDO, CALIFORNIA**

**Prepared for:**

FUGRO PELAGOS, INC.  
4820 McGrath St. Suite 100  
Ventura, California 93003

**Prepared by:**

Padre Associates, Inc.  
369 Pacific Street  
San Luis Obispo, California 93401

August 2015

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## APPENDICES

APPENDIX A: MARINE WILDLIFE MONITOR RESUMES

## 1.0 INTRODUCTION

This Marine Wildlife Contingency Plan (MWCP) has been developed for Fugro Pelagos, Inc., (Fugro) in support of bathymetric and sub-bottom profiling survey, offshore of El Segundo, California (Figure 1). This MWCP has been prepared in accordance with the requirements in the existing California State Lands Commission (CSLC) issued geophysical and geologic sampling permit No. 8391.9. This MWCP is designed to reduce or eliminate adverse impacts to marine wildlife resources within the survey area.

This MWCP is specific to the equipment and activities that are proposed for the survey. The proposed monitoring and mitigations have been successfully used in agency-approved MWCPs for similar offshore surveys in southern California marine waters, and have been shown to be effective in reducing or eliminating potential impacts to marine mammals and turtles.

### 1.1 PURPOSE AND OBJECTIVES

The proposed survey will utilize a single beam bathymetry and sub-bottom profiling system to document the seafloor conditions within the survey area. The survey will be completed by Fugro in accordance with requirements specified by Geosyntec Consultant's statement of work.

### 1.2 PROPOSED SURVEY ACTIVITIES AND AREA

The survey will be completed over a five day period and will utilize Theory Marine's survey vessel (SV) *Theory*, a 11.2 meter (m) (37 foot [ft]) survey vessel designed specifically for hydrographic surveying. The vessel will be mobilized in Marina Del Rey Harbor and will transit to the survey area on the morning of the survey. The survey will be completed during daylight hours (no nighttime operations are proposed). The vessel will return to the Marina Del Rey Harbor at the completion of the survey.

The proposed survey area is located within state waters with depths ranging from as close to inshore to approximately 235 m (50 ft) (Figure 1).

### 1.3 SURVEY EQUIPMENT

Fugro proposes to use the following equipment to collect the required data:

- Single Beam Bathymetry System: The single beam system will consist of an Odom CV100, and a sound Velocimeter.
- Sub-Bottom Profiling System: The sub-bottom profiling system will consist of an Edgetech SB-0512i towfish (Chirp), Applied Acoustics "Boomer" Seismic System and Geometrics "GeoEel" Digital Marine Streamer System onboard the Theory.
- Trimble AgGPS 132 System (DGPS).

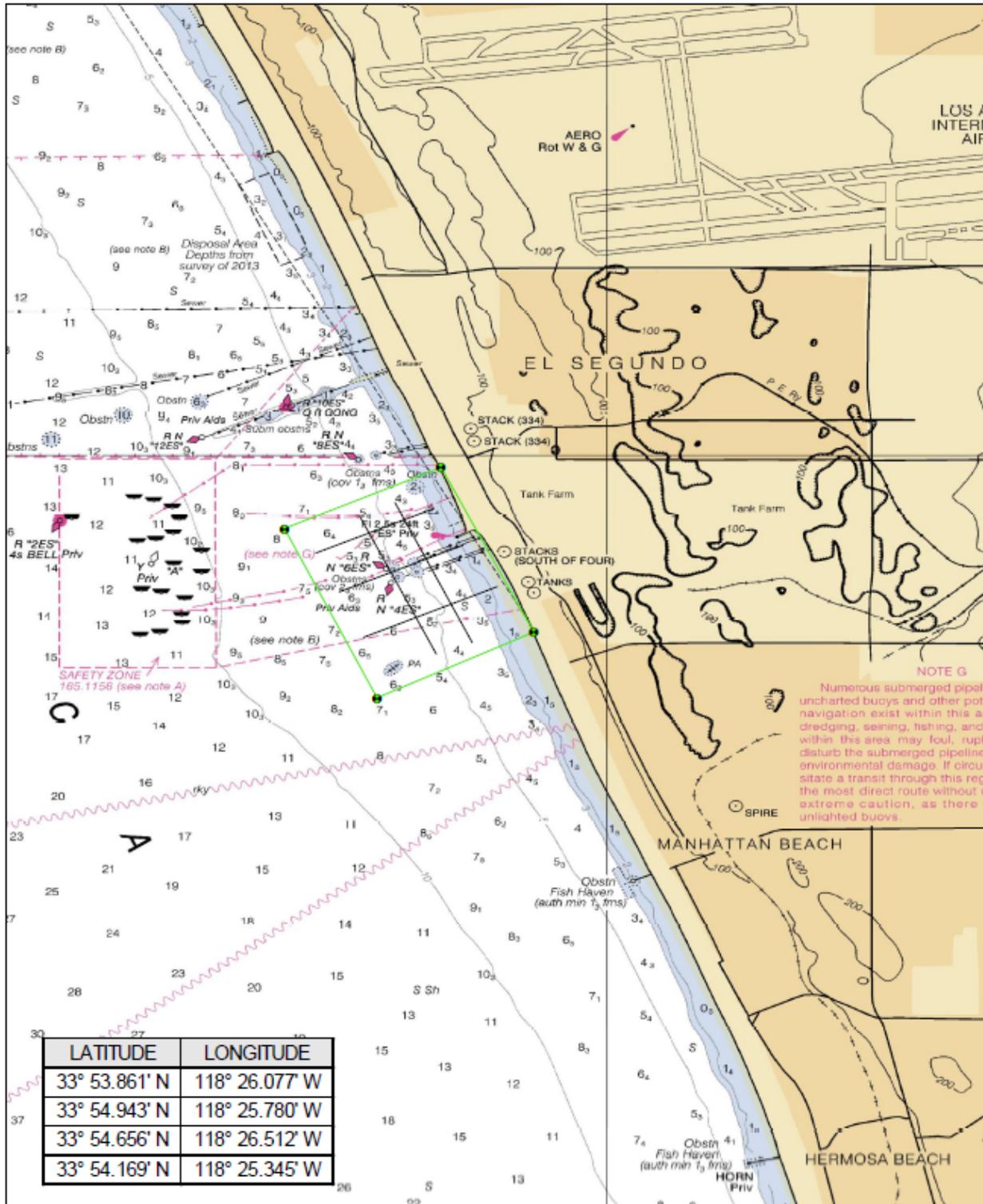


Figure 1. Project Area

## 2.0 MARINE WILDLIFE

Multiple species of marine turtles, cetaceans (whales, dolphins, and porpoises), pinnipeds (seals and sea lions), and fissipeds (sea otter) have been recorded along the Southern California coast (Table 2.1). Most of the recorded species can occur within the survey region, although seasonal abundances of these taxa vary; pinnipeds and some dolphins are year-round residents (Table 2.2). Other species are migratory, such as the gray whale (*Eschrichtius robustus*), or seasonal, such as the blue and humpback whales (*Balaenoptera musculus* and *Megaptera novaeangliae*, respectively) and therefore are more abundant during specific months. Within the project region, resident, seasonal, and migrant taxa could be expected to occur.

**Table 2.1. Abundance Estimates for Marine Mammals and Reptiles within Southern California (California/Mexico Border to Point Conception)**

Common Name Scientific Name	Population Estimate	Current Population Trend
<b>REPTILES</b>		
<b>Cryptodira</b>		
Olive Ridley turtle <i>Lepidochelys olivacea</i>	1.1 million (Eastern Tropical Pacific DPS)	Stable
Green turtle <i>Chelonia mydas</i>	20,112 (Eastern Pacific DPS)	Stable
Loggerhead turtle <i>Caretta caretta</i>	7,138 (California)	Decreasing
Leatherback turtle <i>Dermodochelys coriacea</i>	361 (California)	Decreasing
<b>MAMMALS</b>		
<b>Mysticeti</b>		
California gray whale <i>Eschrichtius robustus</i>	18,017 (Eastern North Pacific Stock)	Fluctuating annually
Fin whale <i>Balaenoptera physalus</i>	2,589 (California/Oregon/Washington Stock)	Increasing off California
Humpback whale <i>Megaptera novaeangliae</i>	1,876 (California/Oregon/Washington Stock)	Increasing
Blue whale <i>Balaenoptera musculus</i>	1,551 (Eastern North Pacific Stock)	Unable to determine
Minke whale <i>Balaenoptera acutorostrata</i>	202 (California/Oregon/Washington Stock)	No long-term trends suggested
Northern Pacific right whale <i>Eubalaena japonica</i>	31 (based on photo-identification) (Eastern North Pacific Stock)	No long-term trends suggested
Sei whale <i>Balaenoptera borealis</i>	83 (Eastern North Pacific Stock)	No long-term trends suggested
<b>Odontoceti</b>		
Short-beaked common dolphin <i>Delphinus delphis</i>	343,990 (California/Oregon/Washington Stock)	Unable to determine
Long-beaked common dolphin <i>Delphinus capensis</i>	76,224 (California Stock)	Unable to determine
Dall's porpoise <i>Phocoenoides dalli</i>	32,106 (California/Oregon/Washington Stock)	Unable to determine
Pacific white-sided dolphin <i>Lagenorhynchus obliquidens</i>	21,406 (California/Oregon/Washington Northern and Southern Stock)	No long-term trends suggested
Risso's dolphin <i>Grampus griseus</i>	4,913 (California/Oregon/Washington Stock)	No long-term trends suggested

**Table 2.1. Abundance Estimates for Marine Mammals and Reptiles within Southern California (California/Mexico Border to Point Conception)**

Common Name Scientific Name	Population Estimate	Current Population Trend
Short-finned pilot whale <i>Globicephala macrorhynchus</i>	465 (California/Oregon/Washington Stock)	No long-term trends suggested
Striped dolphin <i>Stenella coeruleoalba</i>	8,231 (California, Oregon, Washington)	No long-term trends suggested
Baird's beaked whale <i>Berardius bairdii</i>	466 (California, Oregon, Washington)	No long-term trends suggested
Cuvier's beaked whale <i>Ziphius cavirostris</i>	4,481 (California, Oregon, Washington Stock)	No long-term trends suggested
Mesoplodont beaked whales	389 (California, Oregon, Washington)	No long-term trends suggested
Bottlenose dolphin <i>Tursiops truncatus</i>	684 (California/Oregon/Washington Offshore Stock)	No long-term trends suggested
	290 (California Coastal Stock)	No long-term trends suggested
Northern right whale dolphin <i>Lissodelphis borealis</i>	6,019 (California/Oregon/Washington Stock)	No long-term trends suggested
Sperm whale <i>Physeter macrocephalus</i>	751 (California/Oregon/Washington Stock)	No long-term trends suggested
Dwarf sperm whale <i>Kogia sima</i>	Unknown (California, Oregon, Washington)	No long-term trends suggested
Pygmy sperm whale <i>Kogia breviceps</i>	271 (California/Oregon/Washington Stock)	No long-term trends suggested
Killer whale <i>Orcinus orca</i>	162 (Eastern North Pacific Offshore Stock)	No long-term trends suggested
	354 (West Coast Transients)	
<b>Pinnipedia</b>		
California sea lion <i>Zalophus californianus</i>	153,337 (U.S. Stock)	Unable to determine; increasing in most recent three year period
Northern fur seal <i>Callorhinus ursinus</i>	6,431 (California - San Miguel Island Stock)	Increasing
Guadalupe fur seal <i>Arctocephalus townsendi</i>	3,028 (Mexico Stock) Undetermined in California	Increasing
Northern elephant seal <i>Mirounga angustirostris</i>	74,913 (California Breeding Stock)	Increasing
Pacific harbor seal <i>Phoca vitulina richardsi</i>	26,667 (California Stock)	Stable
<b>Fissipedia</b>		
Southern sea otter <i>Enhydra lutris nereis</i>	2,944**	Unable to determine

Source: Allen, 2011; NMFS, 2015a,b; and USGS, 2015

\* Estimates are based on known data of the population of nesting females for eastern Pacific Distinct Population Segments.

\*\* Estimate provided by USGS, 2015

**Table 2.2. California Marine Wildlife Species and Periods of Occurrence within Southern California (California/Mexico Border to Point Conception)**

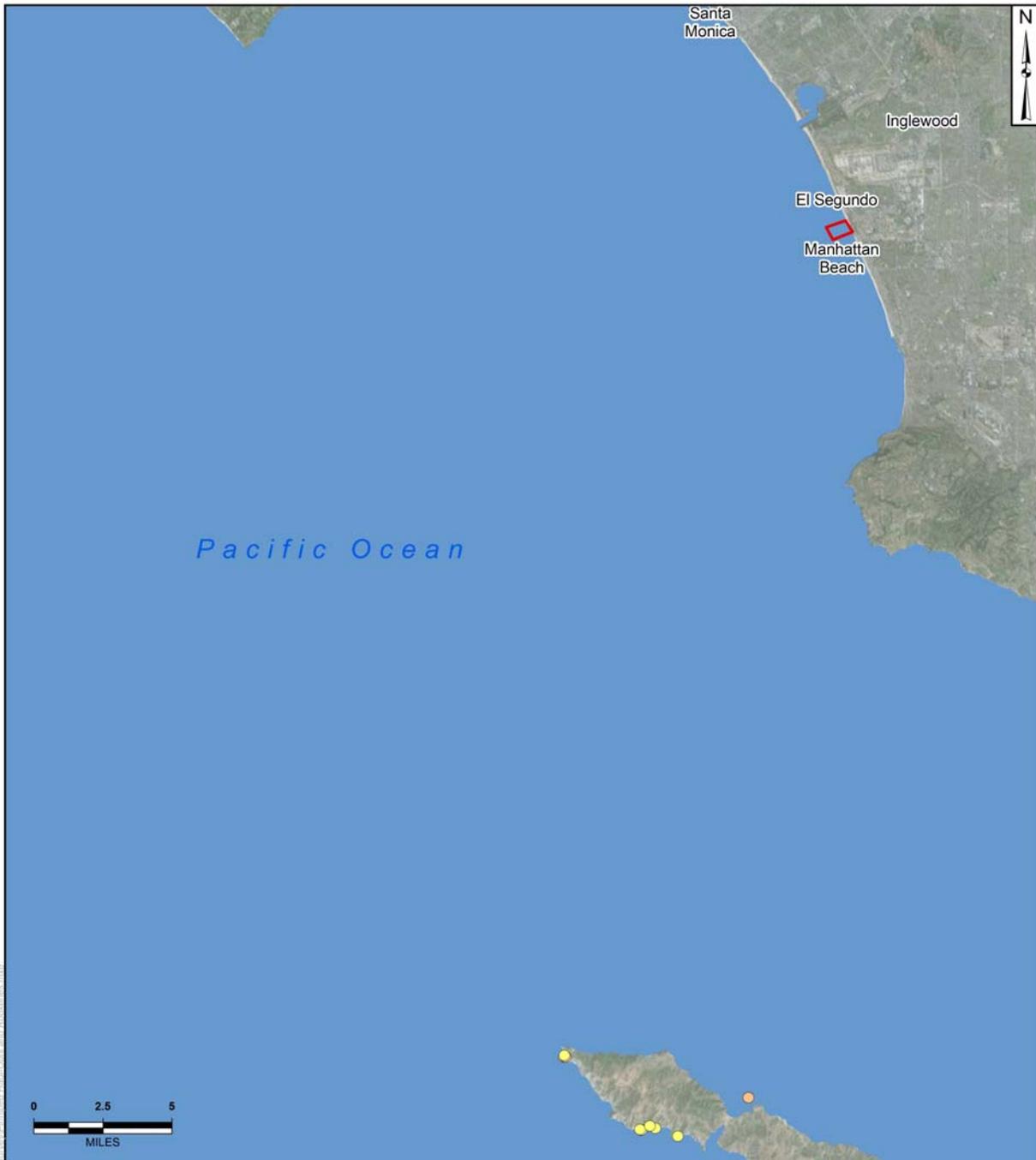
Family Common Name	Month of Occurrence <sup>(1)</sup>											
	J	F	M	A	M	J	J	A	S	O	N	D
<b>REPTILES</b>												
<b>Cryptodira</b>												
Olive ridley turtle (T) <sup>(2)</sup>												
Green turtle (T) <sup>(2)</sup>												
Leatherback turtle (E) <sup>(2)</sup>												
Loggerhead turtle (T) <sup>(2)</sup>												
<b>MAMMALS</b>												
<b>Mysticeti</b>												
California gray whale												
Blue whale (E)												
Fin whale (E)												
Humpback whale (E)												
Minke whale												
Sei whale (E)												
Northern right whale (E)												
<b>Odontoceti</b>												
Dall's porpoise												
Short-beaked common dolphin												
Long-beaked common dolphin												
Pacific white-sided dolphin												
Risso's dolphin												
Short-finned pilot whale												
Bottlenose dolphin												
Northern right whale dolphin												
Sperm whale												
Dwarf sperm whale												
Pygmy sperm whale												
Baird's beaked whale												
Cuvier's beaked whale												
Mesoplodont beaked whales												
Killer whale												
<b>Pinnipedia</b>												
Northern fur seal <sup>(3)</sup>												
Guadalupe fur seal												
California sea lion												
Northern elephant seal <sup>(4)</sup>												
Pacific harbor seal												
<b>Fissipedia</b>												
Southern sea otter (T) <sup>(5)</sup>												

Rare with uniform distribution		Not expected to occur due to seasonal distribution		More likely to occur due to seasonal distribution		Present Year Round	
(E)	Federally listed endangered species.						
(T)	Federally listed threatened species.						
(1)	Where seasonal differences occur, individuals may also be found in the "off" season. Also, depending on the species, the numbers of abundant animals present in their "off" season may be greater than the numbers of less common animals in their "on" season.						
(2)	Only a small percent occur over continental shelf (except near San Miguel rookery, May-November).						
(3)	Common near land during winter breeding season and spring molting season.						
(4)	Only nearshore (diving limit 100 feet).						

Sources: Bonnell and Dailey, 1993; NMFS, 2015a,b; and NCCOS, 2007; and Allen, 2011

## 2.1 PINNIPED HAUL-OUTS AND ROOKERIES

The proposed Project activities will not occur near any known pinniped haul-out and/or rookeries (Figure 2). The closest haul-out/rookery is located on Santa Catalina Island approximately 50 kilometers (km) [31 miles (mi)] south of the active nearshore Project area.



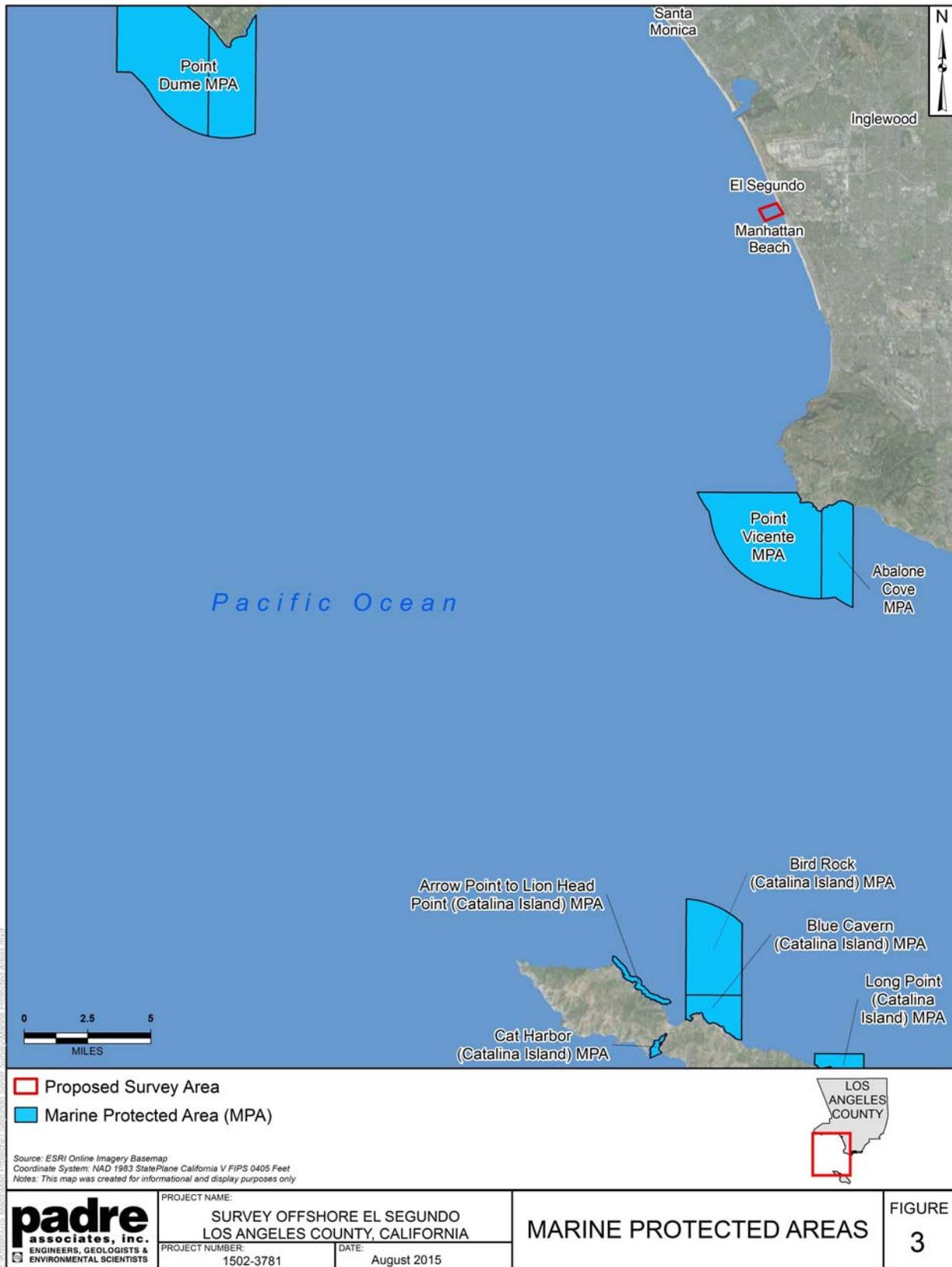
● Harbor Seal Haul Out  
● California Sea Lion Haul Out  
 Proposed Survey Area

Source: NOAA Pinniped Haul Out, ESRI Online Basemap  
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet  
 Notes: This map was created for informational and display purposes only

	PROJECT NAME: SURVEY OFFSHORE EL SEGUNDO LOS ANGELES COUNTY, CALIFORNIA		<b>PINNIPED HAUL-OUTS</b>	<b>FIGURE</b> 2
	PROJECT NUMBER: 1502-3781	DATE: August 2015		

### 3.0 MARINE PROTECTED AREAS

The proposed survey area does not fall into a designated Marine Protected Area (MPA). Point Vicente MPA (Figure 3) is the closest MPA, located approximately 17 km (km) [10.5 mi] south of the survey area.



## **4.0 ONBOARD MONITORING AND OTHER MITIGATIONS**

### **4.1 VESSEL TRANSIT**

Following mobilization, the survey vessel will transit between Marina Del Rey Harbor and the survey area. During vessel transit to and from the survey area, there is a potential for encountering marine wildlife and therefore onboard monitoring will occur. A qualified marine wildlife monitor (approved by NOAA Fisheries and/or experienced in marine wildlife observations – refer to Appendix A for monitor qualifications) will be onboard the vessel throughout the period of the vessel transit and data collection activities.

During transit periods, a marine wildlife monitor will be positioned on the vessel so that the monitor will have a clear view of the area of ocean that is in the direction of the course of travel. That monitor will observe marine mammals and turtles (marine wildlife) and will institute measures to avoid potential collisions with those animals. To minimize the chance of collision with or disturbance of marine mammals and turtles, the vessel will maintain a minimum distance of 91 m (300 ft) from marine wildlife in accordance with CSLC-issued geophysical and geologic sampling permit. If the marine wildlife monitor should observe a marine mammal or reptile within the path of the transiting vessel, the monitor will immediately report that observation to the vessel operator who will, unless those actions will jeopardize the safety of the vessel or crew, slow the vessel and/or change course in order to avoid contact.

When whales are in the survey area and/or are observed proximal to the vessel during transit periods the vessel operator will observe the following guidelines:

- Maintain a minimum distance of 100 m (330 ft) from sighted whales;
- Refrain from crossing directly in front of or across the path of sighted whales;
- Transit parallel to whales and maintain a constant speed that is not faster than the whale's speed;
- Avoid positioning the vessel in such a manner to separate a female whale from her calf;
- Do not use the vessel to herd or drive whales; and
- If a whale engages in evasive or defensive action, slow the vessel and move away from the animal until the animal calms or moves out of the area.

### **4.2 FISHING GEAR CLEARANCE**

In addition to submitting the required Notice to Mariners that will alert commercial fishers of pending on-water activities prior to the start of each survey day, the vessel will traverse the proposed survey corridor to note and record the presence of deployed fishing gear. The type and location of fishing gear (buoys) will be noted, and the California Department of Fish and Wildlife (CDFW) Southern District Enforcement Office will be contacted. No survey lines will be completed within 30 m (100 ft) of any observed fishing gear. The survey crew will not remove or

relocate any fishing gear; removal or relocation will only be accomplished by the owner or by an authorized CDFW agent (Table 4.1).

**Table 4.1. Fishing Gear Contact Information**

Enforcement Dispatch Desk California Department of Fish and Wildlife, Southern District	California Department of Fish & Wildlife, Marine Division
(562) 598-1032	(831) 649-2870

### 4.3 SURVEY MONITORING

Three days prior to the initiation of the survey, Padre marine scientists will contact NOAA Fisheries Long Beach office staff and local private whale-watching operations to acquire information on the recently-observed composition and relative abundance of marine mammals offshore El Segundo and the surrounding area. That information will be conveyed to the vessel operator and crew prior to departure for the survey area.

The onboard monitor is responsible for observations during vessel transit will also be responsible for monitoring during the data collection efforts. During active geophysical survey operations, the monitor will be located on the back deck of the survey vessel. The onboard monitor will observe a safety zone from the back deck using binoculars, centered on the sound source. The back deck of the survey vessel will allow the monitor to have a clear view of the safety zone around the sound source. In addition the vessel captain will assist monitor in observing for marine wildlife within the safety zone. This will ensure that the entire safety zone is monitored during survey activities.

The safety zone will be in accordance to the recommend radial distance specified in the CSLC-issued geophysical and geologic sampling permit for the project geophysical equipment (Table 4.2).

**Table 4.2 Safety Zone from Equipment Sound Sources**

Sounder System	Safety Zone (radius, m [ft])
Single Beam Bathymetry System	50 (164)
Sub-bottom Profiler	100 (328)

At the time of equipment start-up, marine mammals/reptiles within the zone will be noted. If any animals show behavioral changes during equipment start-up, either the equipment will be shut-down until the animal(s) move out of the safety zone, or after 15 minutes of the animal(s) remaining in the safety zone, the equipment will be “ramped up” to full power. With the incorporation of this measure and the other mitigation measures discussed below, the proposed offshore survey activities are unlikely to have a high potential to injure and/or disturb marine wildlife. With the incorporation of this measure and the other mitigation measures discussed below, the proposed offshore survey activities are unlikely to have a high potential to injure and/or disturb marine wildlife.

The onboard monitor will have the authority to recommend halting data collecting operations if a mammal or turtle is observed within the project area, and is reacting to the survey-generated activities. The monitor will also have the authority to recommend continuation or cessation of operations during periods of limited visibility based on the observed abundance of mammals and/or reptiles. Periodic reevaluation of weather conditions and reassessment of the continuation/cessation recommendation will be completed by the onboard monitor.

Due to the small vessel size and short duration of the survey, single monitor will be used during the survey operations. To minimize monitor fatigue, periodic breaks will be requested. Such breaks will be coordinated with the survey crew to minimize disruption to survey operations and when possible completed during equipment maintenance or vessel repositioning. When possible, no monitor will exceed a 4 hours shift without being provided a break.

#### **4.4 MITIGATION MEASURES**

The following operation-related actions will be implemented in accordance with CSLC permit requirements:

1. Survey operator shall use a “soft start” technique at the beginning of survey activities each day (or following a shutdown) to allow any marine mammal that may be in the project area to leave before the sound sources reach full energy. The survey operator will initiate each piece of equipment at the lowest practical sound level, increasing the output no greater than six (6) decibels (dB) per 5-minute period;
2. During operations, if an animal’s actions are observed to be “irregular” the monitor will have the authority to recommend the cessation of data collection until the animal moves out of the project area. If the behavior is observed, the equipment will be shut-off and will be restarted and ramped-up to full power or will not be started until the animal(s) is/are outside of the project area;
3. The monitor will have the authority to recommend halting data collecting operations if a large concentration of diving birds/sea birds is observed in the immediate vicinity; and
4. Unless the safety of the vessel or crew would be in jeopardy, avoidance measures instituted during vessel transit will be implemented during geophysical data collection as well.

With the incorporation of the mitigation measures presented in this document, the proposed offshore survey activities are unlikely to cause injury and/or disturb marine wildlife.

## 5.0 RECORDING AND REPORTING PROCEDURES

### 5.1 OBSERVATION RECORDING

The onboard monitor will record observations on pre-printed forms and will photodocument observations whenever possible. The completed forms will be used as the primary data sources for the post-survey report (see Section 5.3 below) which will be provided to the CSLC and/or other agencies if requested.

### 5.2 COLLISION RESPONSE

If a collision with marine mammal or reptile occurs, the vessel operator must document the conditions under which the accident occurred, including the following:

- Location (latitude and longitude) of the vessel when the collision occurred;
- Date and time of collision;
- Speed and heading of the vessel at the time of collision;
- Observation conditions (e.g., wind speed and direction, swell height, visibility in miles or kilometers, and presence of rain or fog) at the time of collision;
- Species of marine wildlife contacted (if known);
- Whether an observer was observing for marine wildlife at the time of collision; and
- Name of vessel, vessel owner/operator (the company), and captain or officer in charge of the vessel at time of collision.

If a collision occurs, the vessel should stop, if safe to do so. However, the vessel is not obligated to stand by and may proceed after confirming that it will not further damage the animal by doing so. The vessel will then communicate by radio or telephone all details to the vessel's base of operations (Table 5.1).

**Table 5.1. Collision Contact Information**

Federal	State	State
Justin Viezbicke Stranding Coordinator National Marine Fisheries Service Long Beach, California (562) 980-3230	Enforcement Dispatch Desk California Department of Fish and Wildlife Los Alamitos, California (562) 598-1032	California State Lands Commission Division of Environmental Planning and Management Sacramento, California (916) 574-0748

The Marine Mammal Protection Act (MMPA) requires that collisions with or other Project-related impacts to marine wildlife will be reported promptly to the National Marine Fisheries Service (NMFS) Stranding Coordinator. From the report, the NMFS Stranding Coordinator will coordinate subsequent action, including enlisting the aid of marine mammal rescue organizations, if appropriate.

From the vessel's base of operations, a telephone call will be placed to the National Marine Fisheries Service West Coast (California) Stranding Coordinator in Long Beach, to obtain instructions. Alternatively, the vessel captain may contact the NMFS Stranding Coordinator directly using the marine operator to place the call or directly from an onboard telephone, if available to:

National Marine Fisheries Service  
West Coast Stranding Coordinator  
501 West Ocean Blvd, Suite 4200  
Long Beach, CA 90802  
(562) 980-3230  
Contact: Justin Viezbicke

Email: [justin.viezbicke@noaa.gov](mailto:justin.viezbicke@noaa.gov)

It is unlikely that the vessel will be asked to stand by until NMFS or CDFW personnel arrive; however, this will be determined by the NMFS Stranding Coordinator. According to the MMPA, the vessel operator is not allowed to aid injured marine wildlife or recover the carcass unless requested to do so by the NMFS Stranding Coordinator.

Although NMFS has primary responsibility for marine mammals in both state and federal waters, the CDFW will also be advised that an incident has occurred in state waters affecting a protected species.

### **5.3 MONITORING REPORT**

A technical report will be prepared documenting the project activities, observations of marine wildlife, and a summary of encounters with any marine mammals and/or turtles, and subsequent actions taken during the survey. The report will be submitted to Fugro within two weeks of completion of field data collection. Fugro will then submit the monitoring report to the appropriate agencies.

## 6.0 REFERENCES

- Allen, S., Mortenson, J., and Webb, S.. 2011. Field Guide to Marine Mammals of the Pacific Coast: Baja, California, Oregon, Washington, British Columbia. University of California Press. Berkeley and Los Angeles, California.
- Bonnell, M.L., and Dailey, M.D.. 1993. Ecology of the Southern California Bight: A Synthesis and Interpretation. Berkeley, CA: University of California Press.
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- U.S. Geological Survey, 2014. Spring 2014 Mainland California Sea Otter Survey Results. Website accessed online at: <http://www.werc.usgs.gov/ProjectSubWebPage.aspx?SubWebPageID=24&ProjectID=91> on January 23, 2015.

## **APPENDIX A**

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### **MARINE WILDLIFE MONITOR RESUMES**

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## Jennifer Klaib

*Marine Biologist/Biologist*

**EDUCATION:**                   **B.S. Aquatic Biology (Marine Emphasis)**  
University of California – Santa Barbara, 2006.

- QUALIFICATIONS:**
- Biological Surveying and Monitoring
  - Biological Resource Surveys/Reports
  - Contingency Plans
  - Restoration and Mitigation Plans
  - Permit Compliance Monitoring
  - Permit Applications
  - Agency Communications
  - Off-Shore Marine Mammal Monitoring
  - Wildlife Rescue and Relocation

Ms. Klaib joined Padre Associates, Inc. in 2006. As a marine biologist with Padre she has experience in environmental assessments of coastal and offshore development projects, monitoring of construction impacts on biological resources, and in the permitting of coastal projects. Ms. Klaib is responsible for biological surveys, permit compliance monitoring, contingency plans, permit applications, environmental sensitivity trainings, sensitive species surveys, water quality sampling, and wildlife rescue and relocation.

Ms. Klaib has also worked for the Marine Science Institute at the University of California – Santa Barbara where she participated in subtidal and rocky intertidal field research associated with long-term monitoring of biological resources on the Channel Islands and in San Diego County. She also has 6 years of supervisory experience in marine mammal rescue and rehabilitation with the Santa Barbara Marine Mammal Center.

**MARINE PROJECT  
EXPERIENCE  
SUMMARY:**

Ms. Klaib has over 2,000 hours of offshore monitoring experience and is a NOAA Fisheries-qualified marine mammal monitor. Ms. Klaib was responsible for monitoring the effects of construction on marine mammals and turtles during geophysical surveys throughout the California coast, for the PG&E deep seismic surveys offshore Point Buchon, during the installation of pile-supported piers at South Bay Boat Yard in San Diego Bay, and during the replacement of a power cable offshore of Carpinteria. Ms. Klaib has also participated in aerial surveys off the central coast of California. She has logged 40 hours of aerial observations of marine mammals and reptiles.

Ms. Klaib has participated in construction monitoring activities for the Calleguas Municipal Water District Hueneme Outfall Replacement Project, AT&T AAG Fiber Optic Cable Project, the US Coast Guard Floating Dock Repair Project (San Diego Sector), Fifth Avenue Landing/Water Transportation Center Marina Enhancement Project and during the installation of pile-supported piers at South Bay Boat Yard in San Diego Bay. She was responsible for monitoring the effects of construction on

## Resume 2014

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marine mammals, turtles and marine avifauna. Ms. Klaib also participated in turbidity monitoring activities for the later projects and for the PG&E pipeline remediation project in the Sacramento and San Joaquin rivers (delta region), ensuring permit compliance. She has also participated in post-construction monitoring of the recovery of surf grass (*Phyllospadix spp*) at the decommissioned Cojo Marine Terminal near Point Conception.

Prior to joining Padre Associates, Ms. Klaib participated in field studies that included monitoring of the effects of demolition of offshore oil and gas facilities in Santa Barbara Channel on fish, marine mammals and birds. The involvement included the collection and identification of fish species as well as recording aerial and shipboard observations of marine mammals.

### ENVIRONMENTAL DOCUMENTATION:

Ms. Klaib's NEPA experience includes preparation of technical sections for environmental assessment documents for a proposed liquefied natural gas facility off the coast of California; for a proposed marina expansion; and for a proposed hydrogen gas pipeline between the cities of Martinez and Benicia in the Carquinez Straits area of San Francisco Bay. She has also participated in the preparation of permit applications and application support packages for shipyard and marina expansion projects in San Diego Bay.

Ms. Klaib's experience in CEQA projects includes preparation of environmental documents consisting of mitigated negative declarations (MND), initial studies, environmental assessments, monitoring reports, technical reports and environmental impact reports (EIR).

Ms. Klaib has experience in the development of monitoring plans, including the observation and reporting protocols that focus on the documentation of marine operations, oil spill prevention, and marine mammal and bird mitigation compliance.

### BIOLOGICAL OPINIONS / PERMITS:

**CDFG Scientific Collecting Permit (No. SC-11935)** authorizing *capture and release* of marine fishes, and marine/tidal invertebrates. This permit also authorizes the salvage of marine aquatic plants.

**CDFG Scientific Collecting Permit (No. SC-12730)** authorizing *sacrifice* of marine aquatic plants, and marine/tidal invertebrates.

### CERTIFICATIONS:

Certified SCUBA Diver (SSI, 2002)  
Certified AAUS Research Diver (2003)  
Certified *Caulerpa* Survey Specialist (2008)  
40-Hr. Hazardous Waste Certification (HAZWOPER)  
1<sup>st</sup> Aid, CPR, and Oxygen Administration Certified (Bi-annual Refresher)  
Offshore Survival/Helicopter Underwater Egress *Training* (H.U.E.T) (2008)  
NOAA Basic Aviation and Aviation Health Safety Course (2012)  
Confined Space Attendant and Entrant  
San Ardo/Coalinga – EHS Site Specific Orientation.  
Smith System Defensive Driving Course.

# Michaela Hoffman

*Staff Biologist*

**EDUCATION:** **B.S. Biology, Concentration: Marine Science and Fisheries**  
California Polytechnic State University, San Luis Obispo, 2009

- QUALIFICATIONS:**
- Biological Surveying and Monitoring
  - Biological Resource Surveys/Reports
  - Marine Wildlife Contingency Plans
  - Essential Fish Habitat Assessments
  - Offshore Marine Wildlife Observer
  - Wildlife Rescue and Relocation

Ms. Hoffman is a staff biologist and is responsible for mitigation monitoring of protected species offshore, preparing permit applications, wildlife contingency plans and resource assessments. Primarily, she is responsible for monitoring various geophysical surveys offshore San Luis Obispo and Santa Barbara counties. Ms. Hoffman joined Padre Associates, Inc. in 2011. Prior to joining Padre, her experience consisted of both research-based and hands-on experience with marine wildlife.

**OFFSHORE  
EXPERIENCE:**

Ms. Hoffman's offshore experience includes over 150 hours while onboard the Navy Marine Mammal Program (NMMP) training vessels, as well as experience on a research boat for California Polytechnic State University. While with the NMMP in 2007, she was responsible for record keeping, care of working animals, and general crew duties. In 2008-2009, she participated in water quality research while studying at Cal Poly San Luis Obispo and has experience with small vessel operations within Morro Bay, California. Her responsibilities included navigating shallow water channels using GPS, monitoring for wildlife, and maintenance of instruments.

Ms. Hoffman has more than 1,000 hours of experience monitoring marine wildlife and is a National Oceanic and Atmospheric Administration (NOAA) qualified marine mammal monitor. She was responsible for monitoring marine mammals, reptiles, and avifauna during pipe replacement projects in the Dos Cuadras oil field in the Santa Barbara Channel and in the Beta Unit offshore Long Beach, California. Ms. Hoffman was also responsible for monitoring wildlife during the PG&E 3D geophysical surveys offshore San Luis Obispo county in 2011 and 2012, and the cable and seismometer deployments in 2013.

**ENVIRONMENTAL  
DOCUMENTATION:**

Ms. Hoffman has experience preparing marine wildlife contingency plans and incidental harassment assessments for high-energy offshore geophysical surveys, oil and gas pipe replacements, and marine terminal decommissioning projects. Ms. Hoffman has also prepared vessel oil spill contingency plans and essential fish habitat assessments for various marine projects. She has also assisted in the preparation of biological resource sections for CEQA documents such as environmental impact reports (EIRs), and mitigated negative declarations (MNDs).

**MARINE WILDLIFE  
HANDLING:**

Ms. Hoffman worked with the NMMP in San Diego, California where she had responsibilities in both animal husbandry and acoustical research with California sea lions and Atlantic bottlenose dolphins. Ms. Hoffman also has experience in marine mammal rehabilitation at the Marine Mammal Center in Morro Bay, California and Wolf Hollow Rehabilitation Center on San Juan Island, Washington. Her responsibilities included transporting sick and injured animals, and providing medical aid for federally protected species such as California sea lions, Pacific harbor seals, northern elephant seals, fur seals, and southern sea otters.

**CERTIFICATIONS:**

Certified SCUBA Diver, PADI 2008  
40-Hr. Hazardous Waste Certification (HAZWOPER), 2011  
CPR/AED and First Aid Certified, 2011  
STCW Certified Personal Survival Techniques, Cal Maritime Academy, 2011

**BIOLOGICAL  
WORKSHOPS:**

**Taxonomy and Ecology of Branchiopods of California and Oregon,**  
*December 2012.* Presented by Christopher Rogers  
**Fairy Shrimp of California Identification Course,** *March 2013.* Presented  
by Mary S. Belk.

## **APPENDIX A**

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### **MARINE WILDLIFE MONITOR RESUMES**

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# Jennifer Klaib

*Marine Biologist/Biologist*

**EDUCATION:**                   **B.S. Aquatic Biology (Marine Emphasis)**  
University of California – Santa Barbara, 2006.

- QUALIFICATIONS:**
- Biological Surveying and Monitoring
  - Biological Resource Surveys/Reports
  - Contingency Plans
  - Restoration and Mitigation Plans
  - Permit Compliance Monitoring
  - Permit Applications
  - Agency Communications
  - Off-Shore Marine Mammal Monitoring
  - Wildlife Rescue and Relocation

Ms. Klaib joined Padre Associates, Inc. in 2006. As a marine biologist with Padre she has experience in environmental assessments of coastal and offshore development projects, monitoring of construction impacts on biological resources, and in the permitting of coastal projects. Ms. Klaib is responsible for biological surveys, permit compliance monitoring, contingency plans, permit applications, environmental sensitivity trainings, sensitive species surveys, water quality sampling, and wildlife rescue and relocation.

Ms. Klaib has also worked for the Marine Science Institute at the University of California – Santa Barbara where she participated in subtidal and rocky intertidal field research associated with long-term monitoring of biological resources on the Channel Islands and in San Diego County. She also has 6 years of supervisory experience in marine mammal rescue and rehabilitation with the Santa Barbara Marine Mammal Center.

**MARINE PROJECT  
EXPERIENCE  
SUMMARY:**

Ms. Klaib has over 2,000 hours of offshore monitoring experience and is a NOAA Fisheries-qualified marine mammal monitor. Ms. Klaib was responsible for monitoring the effects of construction on marine mammals and turtles during geophysical surveys throughout the California coast, for the PG&E deep seismic surveys offshore Point Buchon, during the installation of pile-supported piers at South Bay Boat Yard in San Diego Bay, and during the replacement of a power cable offshore of Carpinteria. Ms. Klaib has also participated in aerial surveys off the central coast of California. She has logged 40 hours of aerial observations of marine mammals and reptiles.

Ms. Klaib has participated in construction monitoring activities for the Calleguas Municipal Water District Hueneme Outfall Replacement Project, AT&T AAG Fiber Optic Cable Project, the US Coast Guard Floating Dock Repair Project (San Diego Sector), Fifth Avenue Landing/Water Transportation Center Marina Enhancement Project and during the installation of pile-supported piers at South Bay Boat Yard in San Diego Bay. She was responsible for monitoring the effects of construction on

## Resume 2014

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marine mammals, turtles and marine avifauna. Ms. Klaib also participated in turbidity monitoring activities for the later projects and for the PG&E pipeline remediation project in the Sacramento and San Joaquin rivers (delta region), ensuring permit compliance. She has also participated in post-construction monitoring of the recovery of surf grass (*Phyllospadix spp*) at the decommissioned Cojo Marine Terminal near Point Conception.

Prior to joining Padre Associates, Ms. Klaib participated in field studies that included monitoring of the effects of demolition of offshore oil and gas facilities in Santa Barbara Channel on fish, marine mammals and birds. The involvement included the collection and identification of fish species as well as recording aerial and shipboard observations of marine mammals.

### ENVIRONMENTAL DOCUMENTATION:

Ms. Klaib's NEPA experience includes preparation of technical sections for environmental assessment documents for a proposed liquefied natural gas facility off the coast of California; for a proposed marina expansion; and for a proposed hydrogen gas pipeline between the cities of Martinez and Benicia in the Carquinez Straits area of San Francisco Bay. She has also participated in the preparation of permit applications and application support packages for shipyard and marina expansion projects in San Diego Bay.

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NOAA Basic Aviation and Aviation Health Safety Course (2012)  
Confined Space Attendant and Entrant  
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DOCUMENTATION:**

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CPR/AED and First Aid Certified, 2011  
STCW Certified Personal Survival Techniques, Cal Maritime Academy, 2011

**BIOLOGICAL  
WORKSHOPS:**

**Taxonomy and Ecology of Branchiopods of California and Oregon,**  
*December 2012.* Presented by Christopher Rogers  
**Fairy Shrimp of California Identification Course,** *March 2013.* Presented  
by Mary S. Belk.

## Keen, Kelly@SLC

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**From:** Pratt, Cynthia FPI <cpratt@fugro.com>  
**Sent:** Wednesday, August 12, 2015 12:05 PM  
**To:** harbor@cityoflongbeachms.com; dive@ScubaDiveLA.com; scuba@ecodivecenter.com; community@portla.org  
**Cc:** Villegas, Bradi FPI; Stutts, Eddie FPI; Gordon Thrupp; SLCOGPP@SLC  
**Subject:** Pre-survey notification - Harbormasters/Dive Shops  
**Attachments:** 7142 LNM-D11LNM@uscg.mil.pdf

Good Afternoon,

Per our geophysical notification requirements by California State Lands Commission (CSLC), I am submitting to you the attached notice for posting.

Please contact me if you have any questions or require further information.

Kind regards,  
Fugro Pelagos, Inc.

**Cindy Pratt**  
**Survey Operations Manager – Ventura**

T +1 805 289 3807 | C +1 805 279 1138  
[cpratt@fugro.com](mailto:cpratt@fugro.com) | [www.fugro.com](http://www.fugro.com)  
4820 McGrath Street, Suite 100, Ventura, CA 93003-7778, USA

## Keen, Kelly@SLC

---

**From:** Pratt, Cynthia FPI <cpratt@fugro.com>  
**Sent:** Wednesday, August 12, 2015 12:07 PM  
**To:** 'D11LNM@uscg.mil'  
**Cc:** Stutts, Eddie FPI; SLCOGPP@SLC; Villegas, Bradi FPI; Gordon Thrupp  
**Subject:** Local Notice to Mariners  
**Attachments:** 7142 LNM-D11LNM@uscg.mil.pdf

Good Afternoon,

Attached is a local notice to mariners for an upcoming project offshore El Segundo.

Please contact me if you have any questions or further requirements.

Kind regards,  
Fugro Pelagos, Inc.

**Cindy Pratt**  
**Survey Operations Manager – Ventura**

T +1 805 289 3807 | C +1 805 279 1138  
[cpratt@fugro.com](mailto:cpratt@fugro.com) | [www.fugro.com](http://www.fugro.com)  
4820 McGrath Street, Suite 100, Ventura, CA 93003-7778, USA