

**Duck Point Development II, LLC
Hoonah Berth II Project
Protected Species Monthly Report
August 2019**

Prepared For:

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- Attachment A: Marine Mammal Observation Record Forms
- Attachment B: Marine Mammal Take Summary

Introduction

Duck Point Development II, LLC (DPD) is constructing a cruise ship berth (Berth II) and a small-craft lightering float at Cannery Point (Icy Strait Point) on Chichagof Island near Hoonah, Alaska in order to accommodate more and larger cruise ships.

DPD was granted an Incidental Harassment Authorization (IHA) for the project by the National Marine Fisheries Service (NMFS) on June 3, 2019. The IHA is valid from June 3, 2019 to June 2, 2020. NMFS granted Level A and B harassment of a small number of minke whales (*Balaenoptera acutorostrum*), humpback whales (*Megaptera novaeangliae*), gray whales (*Eschrichtius robustus*), killer whales (*Orcinus orca*), Pacific white-sided dolphin (*Lagenorhynchus obliquidens*), Dall's porpoise (*Phocoenoides dalli*), harbor porpoises (*Phocoena phocoena*), harbor seals (*Phoca vitulina*), and Steller sea lions (*Eumetopias jubatus*) (Table 1). The takes granted for this project were generated based upon stock assessments completed by NMFS, direct consultation with NMFS, and observations from the another berth that was installed at Icy Strait Point. Authorized Level A and B take of marine mammals is summarized in Table 1.

Table 1. Authorized Takes of Marine Mammals

Species	Authorized Take	
	Level A	Level B
Minke whale	0	9
Humpback whale	0	434
Gray whale	0	3
Killer Whale	0	570
Pacific White-Sided Dolphin	0	164
Dall's Porpoise	0	1,038
Harbor Porpoise	32	1,992
Harbor Seal	16	156
Steller Sea Lion	0	559
Northern Sea Otter	0	0

(Source: NMFS 2019)

In-water construction on the small-craft lightering float began in June 22, 2019 and was completed by June 23. Construction on Berth II began on July 12, 2019. This monitoring report will be submitted to NMFS and U.S. Fish and Wildlife Service (USFWS) to meet the monthly monitoring and reporting requirements required by NMFS in the IHA issued to DPD under the authority of Section 101 (a)(5)(D) of the Marine Mammal Protection Act (MMPA) and to deliver northern sea otters sighting information to USFWS.

Project Overview and Location

The program was conducted in Port Frederick and Icy Strait near Hoonah, Alaska at approximately 58.1351° N, 135.4506° W (Figure 1).

Figure 1. Duck Point Development, LLC Hoonah Berth II Project Location



Table 2. Level A and Level B Monitoring Zones

Source	Shutdown Zones in Meters (<i>monitoring zone, if different, in meters</i>)					Level B Monitoring Zones (m)
	Low-Frequency Cetaceans (humpback whale, gray whale, minke whale)	Mid-Frequency Cetaceans (killer whale, Pacific white-sided dolphin)	High-Frequency Cetaceans (Dall's porpoise, harbor porpoise)	Phocid (harbor seal)	Otariid (sea lion)	
In-Water Construction Activities*						
Barge movements, pile positioning, sound	10	10	10	10	10	N/A
Vibratory Pile Driving/Removal						
24-inch steel installation	25	10	25	10	10	6,215
30-inch steel temporary installation	25	10	25	10	10	6,215
30-inch steel removal	25	10	25	10	10	6,215
30-inch steel permanent installation	25	10	25	10	10	6,215
36-inch steel permanent installation	25	10	50	25	10	16,345
42-inch steel permanent installation	50	10	50	25	10	16,345
Impact Pile Driving						
36-inch steel permanent installation	1,000	50	100 (1,200)	50 (525)	50	3,745
42-inch steel permanent installation	750	50	100 (900)	50 (400)	50	3,745
Socketed Pile Installation						
24-inch steel permanent installation	25	10	50	15	10	12,025
30-inch steel temporary installation	25	10	50	15	10	12,025
Rock Anchor Installation						
8-inch anchor permanent installation	25	10	25	10	10	12,025
33-inch anchor permanent installation	100	10	100	50	10	12,025

Mitigation and Monitoring Methods

The Protected Species Observer (PSO) monitoring guidelines followed the mitigation measures detailed in the IHA granted by NMFS. The monitoring and mitigation protocols were established in order to minimize impacts to marine mammals in the vicinity of the dock replacement project. Visual observations allowed for the adherence of the shutdown areas and collection of data for use in future activities. All data collected by PSOs are located in Attachment A.

Visual Monitoring Methodology

Three on-site PSOs scanned for marine mammals, recorded and reported sightings, and implemented mitigation actions (shut downs) in accordance with the IHA throughout the month. A 30-minute watch prior to the start of and at the conclusion of any in water work, soft start procedures, and a consistent watch during all in water work occurred. The PSOs were located with a clear view of the action areas and had a full view of Port Frederick and Icy Strait (Figure 2). On days where visibility was reduced takes were extrapolated.

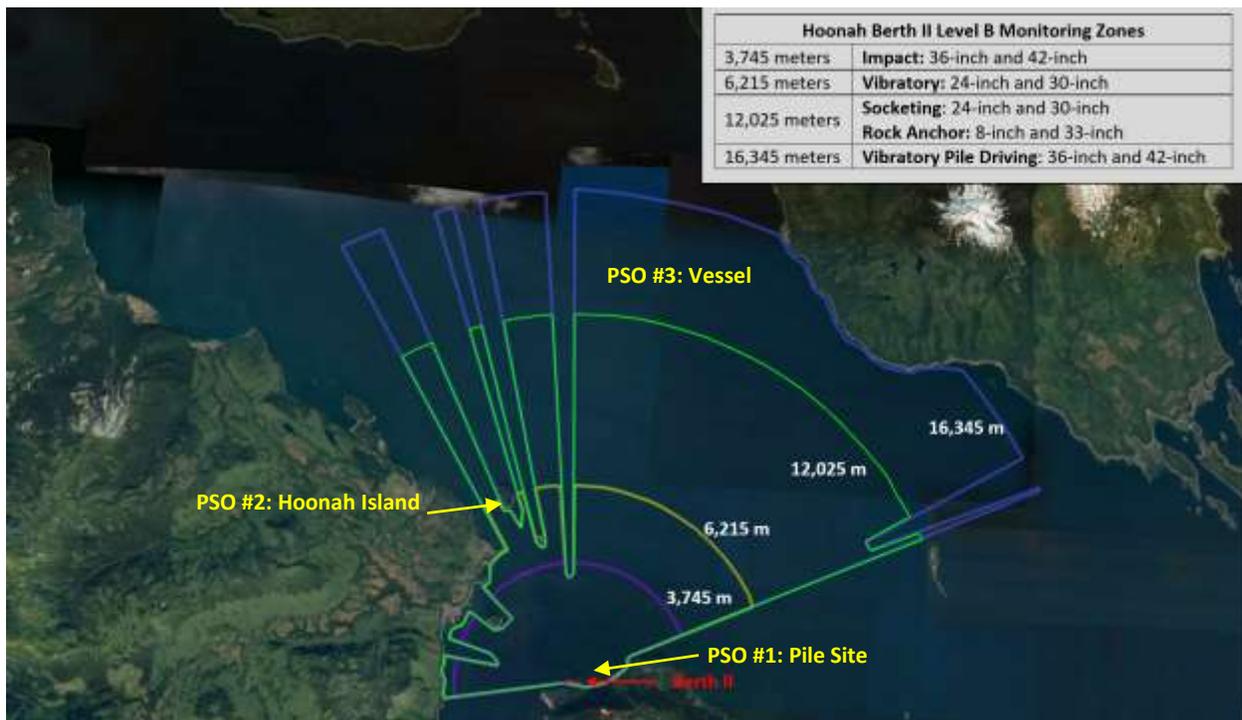


Figure 2. Protected Species Observers Locations During Monitoring (Source: NMFS 2019).

The PSOs were equipped with a VHF radio, binoculars, a rangefinder, and GPS unit. The head observer also was equipped with a cell phone to communicate with the construction superintendent. Guidelines for observers to mitigate for fatigue were closely followed. If a marine mammal was sighted, the observer would identify and record the species. If the marine mammal appeared to be likely to enter a shutdown area, the superintendent was notified and in water work was halted and delayed until the marine mammal left the area or 15 minutes (pinnipeds) and 30 minutes (cetaceans) had passed after the last sighting within or near the action area.

The PSOs recorded the following information for each protected species observation:

- Species, date, and time for each sighting event.
- Number of animals per sighting event (adults/juveniles/calves).
- Primary, and if observed, secondary behaviors of the marine mammal.
- Geographic coordinates for the observed animals.
- Time of the most recent pile-driving activity or other project activity prior to sighting.
- Environmental conditions (i.e. sea state, weather conditions, visibility, lighting conditions, etc.).

When a protected species was observed, distance estimates were made using a rangefinder, the naked eye, and by relating the animal’s proximity to an object at a known distance. Species and sex were determined, when possible, by observing anatomical features and behaviors. Identifications were confirmed and recorded.

Based upon the location, timeframe, behavior, and tracking movement observers were able to positively determine if an individual was being re-sighted. If an individual was re-sighted, a note was made on the sighting form to ensure that additional takes or sightings were not counted. If it could not be positively determined whether it was the same individual, the individual was counted as a new sighting and an additional take, if appropriate.

Work Completed

Protected species monitoring and mitigation during the **ten days** of in-water work during the month of August 2019. Table 3 below details the pile size, number, and method (vibratory hammer, socketing, impact hammer, stabbing, and deadpull method) on each day.

Table 3. Summary of Pile Driving Activities in August 2019

Date	Pile Type	# of Piles	Method
1-Aug	24"-Permanent	2	Socketing and Vibratory Hammer
2-Aug	24"-Permanent	1	Vibratory Hammer
3-Aug	24"-Permanent	3	Socketing
5-Aug	30"-Temporary	4	Vibratory Hammer (removal)
6-Aug	30"-Temporary	4	Vibratory Hammer (removal)
9-Aug	36"-Permanent	2	Rock Anchor
15-Aug	30"-Temporary	4	Vibratory Hammer
17-Aug	36"-Permanent	3	Vibratory Hammer and Impact Hammer
18-Aug	36"-Permanent	2	Impact Hammer
19-Aug	36"-Permanent	2	Vibratory Hammer and Impact Hammer

Environmental Conditions

Environmental conditions on the ten days of monitoring varied (Table 4). Temperatures were between 40°F and 83°F. Visibility was generally good with weather and visibility varying on some days. Weather was sunny, partly cloudy, overcast with periods of light rain and fog. Wind was generally light. Water

conditions in Port Frederick and Icy Strait were generally favorable during observation periods with the Beaufort Sea State at 1 and occasionally increasing to 6 (NOAA 2019).

Table 4. Environmental Condition During In-Water Work in August 2019

Date	Temperature Range (Fahrenheit)	Average Wind Speed (mph)	Visibility	Glare	Weather Condition	Beaufort Sea State
1-Aug	55-67	7.1	Good-Excellent	0%-13%	PC	1
2-Aug	50-71	5.2	Good-Excellent	0%-15%	PC/R	1-6
3-Aug	50-76	4.4	Moderate-Excellent	3%-45%	S/PC	1
5-Aug	49-74	4.7	Good-Excellent	3%-13%	S/PC/OC	1
6-Aug	50-73	5.8	Good-Excellent	0%	OC	1
9-Aug	46-80	5.8	Excellent	0%-40%	S	1
15-Aug	57-70	3.7	Bad-Good	0%-10%	R/F/OC	1
17-Aug	56-64	8.9	Good-Excellent	0%-10%	L/OC	1
18-Aug	46-62	9.3	Good-Excellent	1%-20%	S/PC	2-3
19-Aug	45-62	7.4	Good-Excellent	0%-76%	S/PC/OC	1

Monitoring and Detection Results

Visual Detection

A summary of marine mammal take is included below. Takes only occurred if the sighting happened during periods of in water work. A detailed log of sightings per day is located in Attachment A. The total number of sightings and Level B takes per species for the month of June is in Table 5. Level B takes per day and per species is in Attachment B. No level A takes occurred.

Table 5. Total Number of Sightings and Level B Takes Per Species During the DPD Hoonah Berth II Project In-Water Construction in August 2019

Species	Total Number of Sightings	Number of Level B Takes	Extrapolated Level B Takes	Total Number Level B Takes
Minke whale	0	0	0	0
Humpback whale	28	15	0	15
Gray whale	0	0	0	0
Killer Whale	7	7	0	7
Pacific White-Sided Dolphin	0	0	0	0
Dall's Porpoise	0	0	0	0
Harbor Porpoise	27	12	0	12
Harbor Seal	9	4	0	4
Steller Sea Lion	10	1	0	1
Northern Sea Otter	84	0	0	0
Total	163	39	0	39

Cetacean Detections

Humpback whale

Humpback whales were sighted on eight days of in-water work. Fifteen (15) of the twenty-eight (28) individuals that were sighted were a Level B take, and there were no extrapolated Level B takes. Sightings were of a single individual, a pair, and a group of 4 exhibiting breaching, slapping, swimming, milling, traveling, diving, and foraging behaviors. The sex of the individuals was unable to be determined. No calves were sighted.

Killer whale

Seven (7) killer whales were sighted on two days of in-water work. Of those individuals sighted, all seven (7) resulted in a Level B take, and there were no extrapolated Level B takes. Sightings were of a pair and a group of five exhibiting travelling behavior. The sex of the individuals was unable to be determined. No calves were sighted.

Harbor porpoise

Harbor porpoise were sighted on five days of in-water work. Twelve (12) of the twenty-seven (27) individuals that were sighted were a Level B take, and there were no extrapolated Level B takes. Sightings were of single individuals, a pair, a group of 4 exhibiting traveling, swimming, diving, and milling behaviors. The sex of the individuals was unable to be determined. No calves were sighted.

Pinniped Detections

Harbor seals

Harbor seals were sighted two days of in-water work with a total of 9 individuals sighted. Four (4) sightings resulted in a Level B take, and there were no extrapolated Level B takes. Sightings were all of single individuals that were exhibiting spyhopping, swimming, looking, and milling behaviors. The sex of the individuals was unable to be determined. No pups were sighted.

Steller sea lions

Ten (10) Steller sea lions were sighted during in-water work. The nine individuals were sighted alone or in a pair and only one resulted in a Level B take, there were no extrapolated takes. The individuals were diving, spyhopping, milling, looking, chuffing, traveling, and swimming. The sex of the individuals was unable to be determined. No pups were sighted.

Other Marine Mammal Detections

Northern sea otters

Eighty-four (84) sea otters were sighted in August. Individuals were seen on all days that in-water work occurred in August; however, none of the sightings resulted in takes. Note that due to the distance from the work, no shutdowns were needed or occurred. Groups ranged from 1 to 9 individuals and were determined to be playing, diving, foraging, resting, milling, spyhopping, travelling, and swimming. Individuals' ages were unable to be positively determined. No pups were observed.

Summary

Visual monitoring during August 2019 resulted in the sightings of a total of 163 individuals and a total of 39 Level B takes. Six species of marine mammals were positively identified: humpback whale, killer

whale, harbor porpoise, harbor seals, Steller sea lions, and northern sea otters. No level A takes occurred.

Table 6 summarizes the total number of take that has occurred during construction to date on the project. Currently the project is on track for not exceeding the number of authorized take under the IHA.

Table 6. Total Takes Per Species to Date for the DPD Berth II Project

Species	Level A Authorized	Level B Authorized	Level A Exposures to Date	Level B Exposures to Date	Remaining Level B takes Authorized
Minke Whale	0	9	0	0	9
Humpback Whale	0	434	0	38	396
Gray Whale	0	3	0	0	3
Killer Whale	0	570	0	10	560
Pacific White-Sided Dolphin	0	164	0	0	164
Dall's Porpoise	0	1,038	0	0	1,038
Harbor Porpoise	32	1,992	0	20	1,972
Harbor Seal	16	156	0	7	149
Steller Sea Lion	0	559	0	11	548
Northern Sea Otter	0	0	0	0	0

References

National Marine Fisheries Service. 2019. Duck Point Development, LLC. Incidental Harassment Authorization. Accessed from <https://www.fisheries.noaa.gov/action/incidental-take-authorization-pile-driving-and-removal-activities-during-construction-cruise> June 26, 2019.

National Oceanic and Atmospheric Administration (NOAA). 2019. National Weather Service: Hoonah, Alaska. Accessed from <https://w2.weather.gov/climate/getclimate.php?wfo=pajk> on September 5, 2019.

Attachment A

MARINE MAMMAL

OBSERVATION RECORD

Project Name: HOONAH BERTH 2

Monitoring Location: PILE SITE

Date: AUG 1 2019

Time Effort Initiated: 08:30

Time Effort Completed: 1438

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
08:30	B-P-M-G-E	10%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	08:30 08:45	Grid N or S W or E	100M to 1400M	LK	BL BO BR DF SA OTHER	HPBL PMM	Min: Max: Best: 1	FO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	MOVED OUT NE
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II

Monitoring Location: Vessel

Date: 7/26/14 8-1-19

Time Effort Initiated: 07:40 8:30

Time Effort Completed: 16:38

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
8:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON <input checked="" type="checkbox"/> M OR E OFF	1	8:52	Grid N or S W or E	9250 m	DW	BL BO BR DF <input checked="" type="checkbox"/> SA OTHER	HARO	Min: 2 Max: 2 Best: 2	TR (NE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON <input checked="" type="checkbox"/> M OR E OFF	2	9:27	Grid <input checked="" type="checkbox"/> S W or E	7000 m	DW	BL BO BR DF <input checked="" type="checkbox"/> SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON <input checked="" type="checkbox"/> M OR E OFF	3	10:00	Grid <input checked="" type="checkbox"/> N or S W or E	6750 m	DW	BL BO BR DF SA OTHER	SO	Min: 2 Max: 2 Best: 2	TR (NE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON <input checked="" type="checkbox"/> M OR E OFF	4	10:06	Grid <input checked="" type="checkbox"/> N or S W or E	6200 m	DW	BL BO BR DF <input checked="" type="checkbox"/> SA OTHER	SO	Min: 3 Max: 3 Best: 3	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON <input checked="" type="checkbox"/> M OR E OFF	5	10:15	Grid <input checked="" type="checkbox"/> N or S W or E	7500 m	DW	BL BO BR DF <input checked="" type="checkbox"/> SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Tail shot
E ON PRE/POST CON <input checked="" type="checkbox"/> M OR E OFF	6	10:23	Grid N or S W or E	6900 m	DW	BL BO BR DF <input checked="" type="checkbox"/> SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON <input checked="" type="checkbox"/> M OR E OFF	7	10:48	Grid N or S W or E	2800 m	JK	BL BO BR DF <input checked="" type="checkbox"/> SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON <input checked="" type="checkbox"/> M OR E OFF	8	11:47	Grid N or S W or E	3000 m	JK	BL BO BR DF <input checked="" type="checkbox"/> SA OTHER	SO	Min: 1 Max: 1 Best: 1	TR (S)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hawaii Birth II
 Monitoring Location: Vessel
 Date: 8/1/19
 Time Effort Initiated: 8:30
 Time Effort Completed: 16:38
 Page 2 of 2

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	9	14:40 14:42	Grid N or S W or E	3000 M	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	10	15:26 15:28	Grid N or S W or E	2345 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	11	15:36 15:37	Grid N or S W or E	3456 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	12	15:36 15:39	Grid N or S W or E	3567 m	JS	BL BO BR DF SA OTHER	HPSK	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	13	15:48 :	Grid N or S W or E	3765 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	SP	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II
 Monitoring Location: Hoonah Island
 Date: 8/1/2019
 Time Effort Initiated: 1030
 Time Effort Completed: 1438
 Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
08:30	B-P-M-G-E	13%	S-PC-L-R-F-OC-SN-HR	1/Mod/Hvy	1	SEW	SEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact File #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON M OR E OFF	1	09:21	Grid N or S W or E	5.012m	JS	BL BO BR DF SA OTHER	HADO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON M OR E OFF	2	11:32	Grid N or S W or E	5.123m	JS	BL BO BR DF SA OTHER	SO	Min: 2 Max: 2 Best: 2	SP	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: HOONAH BERTH 2
 Monitoring Location: PILE SITE
 Date: AUG 2 2019
 Time Effort Initiated: 12:30
 Time Effort Completed: 17:00
 Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:30	B-P-M-G-E	10%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	15:24	Grid N or S W or E	900	LK	BL BO BR DF SA OTHER	HBK	Min: Max: Best:	TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: HOONAH BERTH II

Monitoring Location: VESSEL

Date: 8/2/19

Time Effort Initiated: 12:30

Time Effort Completed: 17:00

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:30	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
16:15	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	6	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	14:24	Grid N or S W or E	4,500 6,400 m	DW	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	15:14	Grid N or S W or E	4,500 m	JK	BL BO BR DF SA OTHER	HPDK	Min: 2 Max: 2 Best: 2	TR (N)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	15:36	Grid N or S W or E	5,000 m	JK	BL BO BR DF SA OTHER	SO	Min: 2 Max: 2 Best: 2	SP	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	4	16:00	Grid N or S W or E	6,000 m	JK	BL BO BR DF SA OTHER	TR HPDK	Min: 1 Max: 1 Best: 1	TR (E)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berh II
 Monitoring Location: Hoonah Island
 Date: 8/2/19
 Time Effort Initiated: 1230
 Time Effort Completed: 1700
 Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:30	B-P-M-G-E	15%	S-PO-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
15:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	6	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	13:29 :	Grid N or S W or E	3989m	SS	BL BO BR DF SA OTHER	HAPO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	15:40 16:00	Grid N or S W or E	6234m	SS	BL BO BR DF SA OTHER	HPBX	Min: 2 Max: 2 Best: 2	TR (NW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	16:27 :	Grid N or S W or E	5678m	SS	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	MI/SP	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II

Monitoring Location: Pile Site

Date: 8/3/2019

Time Effort Initiated: 1100

Time Effort Completed: 17:20

Page 1 of

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
11:00	B-P-M-G-E	45%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	14:00	Grid N or S W or E	700m	EH	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 3 Best: 2	SW/DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	In bay E of work - swimming w Holland America ship leaving Berth I
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoanah Berth II

Monitoring Location: Vessel

Date: 3/8/19 03/2019

Time Effort Initiated: 10:30 AM 11:00

Time Effort Completed: 1720

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-M-G-E	50%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	2:10	Grid N or S W or E	500 M	JK	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	17:09	Grid N or S W or E	320m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II
 Monitoring Location: Hoonah Isle.
 Date: 8/3/19
 Time Effort Initiated: 1100
 Time Effort Completed: 1720
 Page 1 of 1

low haze super low tide

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-M-G-E	28%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
12:00	B-P-M-G-E	68%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
14:15	B-P-M-G-E	3%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	14:37 14:47	Grid N or S W or E	6,200 m 4,000 m	SS	BL BO BR DF SA OTHER	orca	Min: 2 Max: 3 Best: 2	TR (SW)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	traveling toward pile site
E ON PRE/POST CON S M OR E OFF	2	15:19 15:25	Grid N or S W or E	5,000 m 4,000 m	SS	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR (W)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	15:31 15:34	Grid N or S W or E	6,000 m	SS	BL BO BR DF SA OTHER	HPBK	Min: 3 Max: 4 Best: 4	TR (N)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	4	15:38 15:39	Grid N or S W or E	6,250 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	FO	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Honoh Berth II
 Monitoring Location: Hoonah Isle.
 Date: 8/3/19
 Time Effort Initiated: 1100
 Time Effort Completed: 1720
 Page 1 of 1

low haze super low tide

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-(M)-G-E	28%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
12:00	B-P-(M)-G-E	68%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
14:15	B-P-M-(G)-E	3%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	14:37 14:47	Grid N or S W or E	6,200 m 4,000 m	SS	BL BO BR DF SA OTHER	brla	Min: 2 Max: 3 Best: 2	TR (SW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	traveling toward pile site
E ON PRE/POST CON S M OR E OFF	2	15:19 15:25	Grid N or S W or E	5,000 m 4,000 m	SS	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR (W)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	3	15:31 15:34	Grid N or S W or E	6,000 m	SS	BL BO BR DF SA OTHER	HPBK	Min: 3 Max: 4 Best: 4	TR (N)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	4	15:38 15:39	Grid N or S W or E	6,250 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	FO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II

Monitoring Location: Pile site

Date: 8/5/19

Time Effort Initiated: 1527

Time Effort Completed: 1700

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:30	B-P-M-G-E	13%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	SEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hannah Bait II

Monitoring Location: Vessel

Date: 5 Aug 2019

Time Effort Initiated: 15:30 # 1527

Time Effort Completed: 1700

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:30	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
15:33	B-P-M-G-E	10%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	16:43	Grid N or S W or E	5,500 M	JK	BL BO BR DF SA OTHER	H A P O	Min: 1 Max: 1 Best: 1	DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II

Monitoring Location: Hoonah Island

Date: 8/5/17

Time Effort Initiated: 12:30 1527

Time Effort Completed: 1700

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:30	B-P-M-G-E	13%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
15:30	B-P-M-G-E	3%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	3	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Basin II

Monitoring Location: Pile Site

Date: 08/12/2019

Time Effort Initiated: 0930

Time Effort Completed: 1112

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
09:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Honah Berth II

Monitoring Location: Vessel

Date: Aug 6 2019

Time Effort Initiated: 09:30

Time Effort Completed: 11:12

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
09:30	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	09:24 09:30	Grid N or S W or E	6300 1 m 4,000m	SS	BL BO BR DF SA OTHER	ST SL	Min: 1 Max: 1 Best: 1	SW (S)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	09:45 09:45	Grid N or S W or E	10,000 m	SS	BL BO BR DF SA OTHER	HP BK	Min: 1 Max: 1 Best: 1	UN	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	10:40 10:41	Grid N or S W or E	2,000 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	24 11
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Basin II

Monitoring Location: Hoonah Island

Date: Aug 6 2019

Time Effort Initiated: 09:30

Time Effort Completed: 11:12

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
9:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	9:32 9:50	Grid N or S W or E	4123 _m	JS	BL BO BR DF SA OTHER	HAPU	Min: 3 Max: 5 Best: 4	MI RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	possible foraging
E ON PRE/POST CON S M OR E OFF	2	9:45 9:46 10:26	Grid N or S W or E	4321 _m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	not motivated for take- distance outside zone
E ON PRE/POST CON S M OR E OFF	3	9:55 10:13	Grid N or S W or E	4444 _m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	4	11:10 11:12	Grid N or S W or E	1456 _m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 2 Best: 1	MI RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth #

Monitoring Location: Pile Site

Date: 08/09/2019

Time Effort Initiated: 1045

Time Effort Completed: 2020

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:45	B-P-M-G-E	40%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	11:01 11:24	Grid N or S W or E	1,000m	EH	BL BO BR DF SA OTHER	HSEA	Min: Max: Best:	LO/SW	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	11:56 13:20	Grid N or S W or E	3,000m	EH	BL BO BR DF SA OTHER	HPBK	Min: Max: Best:	BR/SL	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	Small vessel approached @ 1208
E ON PRE/POST CON S M OR E OFF	2.1	13:22 13:25	Grid N or S W or E	700m	EH	BL BO BR DF SA OTHER	HPBK	Min: Max: Best:	TR (SW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	Arch around from Pt. Sophia into Port Frederick left zone @ 1325
E ON PRE/POST CON S M OR E OFF	3	18:30 18:31	Grid N or S W or E	5,000m	EH	BL BO BR DF SA OTHER	HPBK	Min: Max: Best:	TR (NW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	leaving Port Frederick along west shore
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: HONOLULU BERTH II

Monitoring Location: VESSEL

Date: 8/9

Time Effort Initiated: 10:30 AM

Time Effort Completed: 20:20

Page 1 of 3

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-M-G-E	3%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	10:59	Grid N or S W or E	5550 m	DW	BL BO BR DF SA OTHER	SO	Min: 2 Max: 2 Best: 2	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	11:04	Grid N or S W or E	6200 m	DW	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	11:18	Grid N or S W or E	6000 m	DW	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	4	11:34	Grid N or S W or E	5500 m	DW	BL BO BR DF SA OTHER	HAPD	Min: 1 Max: 1 Best: 1	SW (SW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	5	11:38	Grid N or S W or E	4000 m	DW	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	6	11:42	Grid N or S W or E	4625 m	DW	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	7	11:48	Grid N or S W or E	4100 m	DW	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	8	12:00	Grid N or S W or E	4900 m	DW	BL BO BR DF SA OTHER	SO	Min: 2 Max: 2 Best: 2	SW (W)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	

MARINE MAMMAL OBSERVATION RECORD

Project Name: HOONAH BERTH II
 Monitoring Location: VESSEL
 Date: 8/9
 Time Effort Initiated: 10:30
 Time Effort Completed: 20:20
 Page 2 of 3

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-M-G-E	3%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	WSEW
16:40	B-P-M-G-E	13%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	9	12:17 12:26	Grid N or S W or E	4625	DW	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 3 Best: 2	BR, BL, SL	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	10	12:27	Grid N or S W or E	5000 m	DW	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	11	12:44	Grid N or S W or E	5,200 m	JK	BL BO BR DF SA OTHER	SO	Min: 4 Max: 4 Best: 4	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	12	13:40	Grid N or S W or E	4000 m	JK	BL BO BR DF SA OTHER	SO	Min: 6 Max: 6 Best: 6	PL	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	13	15:05	Grid N or S W or E	3,600 m	JK	BL BO BR DF SA OTHER	HA PO	Min: 1 Max: 1 Best: 1	PI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	14	17:23 17:25	Grid N or S W or E	3333 m	JS	BL BO BR DF SA OTHER	SO	Min: 3 Max: 4 Best: 3	RE/MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	15	17:37 17:42	Grid N or S W or E	3999 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE/MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	16	17:41 17:47	Grid N or S W or E	4123 m	JS	BL BO BR DF SA OTHER	HTAPD	Min: 1 Max: 2 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoanah Berth II
 Monitoring Location: Vessel
 Date: August 9th, 2019
 Time Effort Initiated: 10:30
 Time Effort Completed: 20:20
 Page 3 of 3

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
17:50	B-P-M-G-E	13%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	17	17:50	Grid N or S W or E	4234 m	JS	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SP/MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	18	18:00	Grid N or S W or E	4567 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE/ MI/OI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	19	18:02	Grid N or S W or E	4890 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI/OI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	20	18:05	Grid N or S W or E	5234 m	JS	BL BO BR DF SA OTHER	HAP0	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	21	18:19	Grid N or S W or E	5789 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	22	18:46	Grid N or S W or E	7000 m	JK	BL BO BR DF SA OTHER	HAP0	Min: 1 Max: 1 Best: 1	OI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	23	19:18	Grid N or S W or E	6100 m	JK	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	SW (w)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF			Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II
 Monitoring Location: Hoonah Island
 Date: August 9th 2019
 Time Effort Initiated: 10:35
 Time Effort Completed: 20:20
 Page 1 of 3

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:45	B-P-M-G-E	3%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
11:30	B-P-M-G-E	13%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE /POST CON <input checked="" type="radio"/> M OR E OFF	1	11:02	Grid N or S W or E	6345m	JS	BL BO BR DF <input checked="" type="radio"/> SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SP	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE /POST CON <input checked="" type="radio"/> M OR E OFF	2	11:12 11:17	Grid N or S W or E	6543m	JS	BL BO BR DF SA OTHER	STSL	Min: 2 Max: 2 Best: 2	TR (E)CH	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON <input checked="" type="radio"/> M OR E OFF	3	11:26 11:28	Grid N or S W or E	6123m	JS	BL BO BR DF <input checked="" type="radio"/> SA OTHER	STSL	Min: 1 Max: 2 Best: 1	CH, MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON <input checked="" type="radio"/> M OR E OFF	4	12:29	Grid N or S W or E	5123m	JS	BL BO BR DF <input checked="" type="radio"/> SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SP, MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON <input checked="" type="radio"/> M OR E OFF	5	12:30	Grid N or S W or E	4987m	JS	BL BO BR DF <input checked="" type="radio"/> SA OTHER	HAPD	Min: 1 Max: 2 Best: 2	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON <input checked="" type="radio"/> M OR E OFF	6	14:02 14:07	Grid N or S W or E	6234m	JS	BL BO BR DF <input checked="" type="radio"/> SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON <input checked="" type="radio"/> M OR E OFF	7	15:25	Grid N or S W or E	6200m	DW	BL BO BR DF <input checked="" type="radio"/> SA OTHER	HAPD	Min: 1 Max: 1 Best: 1	TR (E)	SSV SSI V BR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON <input checked="" type="radio"/> M OR E OFF	8	15:53	Grid N or S W or E	6500m	DW	BL BO BR DF <input checked="" type="radio"/> SA OTHER	HAPD	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	

MARINE MAMMAL OBSERVATION RECORD

Project Name: HOONAH BERTH II

Monitoring Location: HOONAH ISLAND

Date: 8/9

Time Effort Initiated: 10:30

Time Effort Completed: 20:20

Page 2 of 3

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
18:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	9	16:03	Grid N or S W or E	6600 m	DW	BL BO BR DF SA OTHER	HAP0	Min: 1 Max: 1 Best: 1	TR (W)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	10	17:42	Grid N or S W or E	6300 m	DW	BL BO BR DF SA OTHER	SO	Min: 2 Max: 2 Best: 2	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Drilling during sighting, but distance is too far away for a take.
E ON PRE/POST CON S M OR E OFF	11	17:55 18:02	Grid N or S W or E	6550 m	DW	BL BO BR DF SA OTHER	HAP0	Min: 1 Max: 1 Best: 1	TR, DI (E)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	12	18:38	Grid N or S W or E	6234 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	CH TR/SW (SE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	13	18:54	Grid N or S W or E	4987 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE/MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	14	19:04	Grid N or S W or E	5678 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE/MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	15	19:04 19:08	Grid N or S W or E	6311 m	JS	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	CH/ TR/SW (NW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	16	19:20 19:25	Grid N or S W or E	3456 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE/MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "

MARINE MAMMAL OBSERVATION RECORD

Project Name: Honoh North II

Monitoring Location: Honoh Island

Date: August 9th 2019

Time Effort Initiated: 10:30

Time Effort Completed: 20:20

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	17	19:31 19:34	Grid N or S W or E	6234m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	18	19:41 19:42	Grid N or S W or E	4567 m	JS	BL BO BR DF SA OTHER	HIAPO	Min: 2 Max: 3 Best: 2	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	19	19:46 :	Grid N or S W or E	5123 m	JS	BL BO BR DF SA OTHER	HIAPO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	20	19:46 19:50	Grid N or S W or E	4321 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE MI/SP	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	21	19:57 20:04	Grid N or S W or E	3456 m	JS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE/MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Basin II

Monitoring Location: Pile Site

Date: 8/15/19

Time Effort Initiated: 0730

Time Effort Completed: 1032

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
07:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	08:13 08:15	Grid N or S W or E	800m	EH	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	LO/SW	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Houma Bay II

Monitoring Location: Vessel

Date: 8/15/19

Time Effort Initiated: 7:30 AM

Time Effort Completed: 10:32

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
07:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSE(W)	NSE(W)
09:00	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSE(W)	NSE(W)
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact File #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	07:47 07:47	Grid N or S W or E	6,000 m	ST SL	BL BO BR DF SA OTHER	SS	Min: 1 Max: 1 Best: 1	SP DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	07:52 07:52	Grid N or S W or E	7,500 m	HP BK	BL BO BR DF SA OTHER	SS	Min: 1 Max: 1 Best: 1	DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	08:17 08:19	Grid N or S W or E	8,000 m	SO	BL BO BR DF SA OTHER	SS	Min: 2 Max: 2 Best: 2	TR (N)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	4	08:32 08:32	Grid N or S W or E	9,000 m	HP BK	BL BO BR DF SA OTHER	SS	Min: 1 Max: 1 Best: 1	DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	tail up!
E ON PRE/POST CON S M OR E OFF	5	08:45 08:45	Grid N or S W or E	8,000 m	HP BK	BL BO BR DF SA OTHER	SS	Min: 1 Max: 1 Best: 1	DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	6	09:16 09:18	Grid N or S W or E	6,000 m	SO	BL BO BR DF SA OTHER	SS	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	7	09:18 09:18	Grid N or S W or E	8,000 m	HA PO	BL BO BR DF SA OTHER	SS	Min: 2 Max: 2 Best: 2	TR (E/W)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	8	09:31 :	Grid N or S W or E	5,000 m	SO JK	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	

MARINE MAMMAL OBSERVATION RECORD

Project Name: Honouliuli Death II
 Monitoring Location: Vessel
 Date: 8/15/19
 Time Effort Initiated: 7:30 AM
 Time Effort Completed: 10:30
 Page 2 of 2

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
9:39	B-P-M-G-E	10%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	9	9:39	Grid N or S W or E	4,500 M	JK	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	10	10:22 10:22	Grid N or S W or E	5,000 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Honoh North II
 Monitoring Location: Honoh Island
 Date: 8/15/19
 Time Effort Initiated: 7:30
 Time Effort Completed: 10:32
 Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
7:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	SEW	SEW
9:50	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	SEW	SEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Pile Site

Monitoring Location: HOONAH BERTH 2

Date: AUG 17 2019

Time Effort Initiated: 14:00

Time Effort Completed: 1655

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
14:00	B-P-M-G-E	10%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II

Monitoring Location: Vessel

Date: 17 August 2019

Time Effort Initiated: ~~13:30~~ 1400

Time Effort Completed: 16:55

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
19:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
16:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	3	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	14:22 14:22	Grid N or S W or E	2,000 m	SS	BL BO BR DF SA OTHER	ST SL	Min: 2 Max: 3 Best: 2	HO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	14:29 14:34	Grid N or S W or E	2,500 m	SS	BL BO BR DF SA OTHER	SO	Min: 4 Max: 4 Best: 4	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	14:36 14:40	Grid N or S W or E	4,000 m	SS	BL BO BR DF SA OTHER	SO	Min: 8 Max: 10 Best: 9	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Distance too far for take and not authorized for takes
E ON PRE/POST CON S M OR E OFF	4	14:38 14:39	Grid N or S W or E	3,000	SS	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	SW (E) DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	5	14:41 14:45	Grid N or S W or E	2,000 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	FO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	6	14:56 14:57	Grid N or S W or E	1,000 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	" "
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II
 Monitoring Location: Hoonah Island
 Date: 8/17/19
 Time Effort Initiated: 14:00
 Time Effort Completed: 16:55
 Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
14:00	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
16:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact File #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II

Monitoring Location: Pile Site

Date: 8/18/19

Time Effort Initiated: 1430

Time Effort Completed: 1845

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
14:30	B-P-M-G-E	20%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	(N)SE(W)	(N)SE(W)
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Honah Berth II
 Monitoring Location: Vessel
 Date: 18 August 2019
 Time Effort Initiated: 14:30
 Time Effort Completed: 18:45
 Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
14:30	B-P-M-G-E	15%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	3	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact File #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	15:36 15:36	Grid N or S W or E	6,000 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	FO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	15:41 15:41	Grid N or S W or E	6,000m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	SP	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	15:48 15:48	Grid N or S W or E	5,500 m	SS	BL BO BR DF SA OTHER	SO	Min: 2 Max: 2 Best: 2	DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	4	16:05 16:05	Grid N or S W or E	3,100 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoanah Bark II
 Monitoring Location: Hoanah Island
 Date: 8/18/19
 Time Effort Initiated: 14:30
 Time Effort Completed: 18:45
 Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
14:30	B-P-M-G-E	10%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	N/SE W	N/SE W
16:30	B-P-M-G-E	1%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSE W	NSE W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSE W	NSE W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSE W	NSE W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSE W	NSE W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSE W	NSE W

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/ Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	16:07	Grid N or S W or E	6234 m	JS	BL BO BR DF SA OTHER	HSEA	Min: Max: Best:	SP	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Berth II

Monitoring Location: Pile Site

Date: 8/19/19

Time Effort Initiated: 0830

Time Effort Completed: 1210

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
08:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Donah Berth IIMonitoring Location: VesselDate: 19 August 2019Time Effort Initiated: 8:30 AMTime Effort Completed: 12:10 PMPage 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
8:30	B-P-M-G-E	10%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
10:00	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	08:30 08:33	Grid N or S W or E	6,200 m	SS	BL BO BR DF SA OTHER	HA PO	Min: 2 Max: 2 Best: 2	SW (NE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	08:43 08:43	Grid N or S W or E	7,000 m	SS	BL BO BR DF SA OTHER	HP BK	Min: 1 Max: 1 Best: 1	UN	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	09:53 09:53	Grid N or S W or E	2,000 m	SS	BL BO BR DF SA OTHER	SO	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	4	11:01 :	Grid N or S W or E	2,800 m	JK	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	5	11:34 :	Grid N or S W or E	3,200 m	J/K	BL BO BR DF SA OTHER	JO	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Hoonah Beach II
 Monitoring Location: Hoonah Island
 Date: 8/19/17
 Time Effort Initiated: 08:30
 Time Effort Completed: 12:10
 Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell ?
8:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N(S)E W	N(S)E W
10:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSE W	NSE W
11:53	B-P-M-G-E	76%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N(S)E W	NSE W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSE W	NSE W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSE W	NSE W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSE W	NSE W

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Zone/ Radius/ Impact Pile #?	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	9:44 9:46	Grid N or S W or E	6234m	JS	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	CH TR(SE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	9:58 10:28	Grid N or S W or E	2789m 4800m	JS	BL BO BR DF SA OTHER	OREA	Min: 5 Max: 7 Best: 5	AL, SP, SW, MI, TR(E)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
E ON PRE/POST CON S M OR E OFF	3	11:55 12:05	Grid N or S W or E	3210m	JS	BL BO BR DF SA OTHER	OTSEA	Min: 1 Max: 1 Best: 1	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

Attachment B

