

YTD 2021 Summary					
Date	Species	Level B Takes	Level A Takes	% of Level B Area Monitored	Estimated Takes for Total Level B Area
1/21/21	HPBK	1	0	63%	1.6
1/25/21	HPBK	4	0	63%	6.3
1/26/21	HPBK	4	0	69%	5.8
	STSL	3	0	69%	4.3
1/28/21	HPBK	1	0	69%	1.4
	STSL	3	0	69%	4.3
1/29/21	HPBK	1	0	69%	1.4
1/30/21	HS	1	0	69%	1.4
2/1/21	HPBK	4	0	69%	5.8
	STSL	2	0	69%	2.9
2/2/2021	HPBK	2	0	69%	2.9
Shift 1	STSL	2	0	69%	2.9
2/2/2021					
Shift 2	HPBK	2	0	63%	3.2
2/8/21	HPBK	4	0	100%	4.0
2/9/21	HPBK	4	0	63%	6.3
	STSL	12	0	63%	19.0
2/13/21	HPBK	5	0	69%	7.2
	STSL	13	0	69%	18.8
	HS	1	0	69%	1.4
2/14/21	HPBK	2	0	69%	2.9
	STSL	33	0	69%	47.8
	HS	1	0	69%	1.4
	ORCA	10	0	69%	14.5
2/15/21	HPBK	3	0	69%	4.3
	STSL	7	0	69%	10.1
2/24/21	HPBK	4	0	63%	6.3
2/25/21	HPBK	2	0	100%	2.0
2/27/21	HPBK	1	0	69%	1.4
4/24/21	STSL	2	0	69%	2.9
	HS	2	0	69%	2.9
4/28/21	HS	1	0	63%	1.6
5/3/21	STSL	1	0	69%	1.4
5/3/21	STSL	1	0	63%	1.6
5/7/21	STSL	1	0	69%	1.4
	HPBK	4	0	69%	5.8
5/7/21	HPBK	4	0	69%	5.8
	HS	1	0	69%	1.4
5/15/21	STSL	2	0	69%	2.9
5/17/21	STSL	2	0	69%	2.9
5/27/21	STSL	4	0	63%	6.3
5/27/21	STSL	2	0	66%	3.0
6/3/21	STSL	1	0	63%	1.6
6/4/21	STSL	2	0	63%	3.2

YTD 2021 Level Total Takes			
Species	Level A	Level B	Average Per Day
HPBK		74.7	1.8
STSL		137.8	3.3
HS		10.2	0.2
ORCA		14.5	0.3

Halibut Point Marine Services, LLC
Old Sitka Dock North Dolphins Expansion Project

Marine Mammal Monitoring Summary Report - January 2021

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
1/10/21	1230	1400	Light Rain	E	0	Lt	1	SE	SE	Vibe	1 - Steel	1,2,3,4	Local Boat Traffic

Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	13:45	3000	3800	BL	HPBK	1		ADLT	VN	None	None	N	2

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
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1/11/21	1000	1400	Light Rain	E	0	Lt	1	SE	SE	Vibe	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
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1/13/21	1130	1230	OC	E	0	Lt	1	SE	SE	Vibe	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
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1/21/21	1100	1248	PC	E	0	Lt	0	N	N	Vibe	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1100	2500	2400	BL	HPBK	1		ADLT	MI	None	None	N	1
2	1150-1248	2000	3700	BL, SA	HPBK	1		ADLT	MI	V	None	Y	2
3	1125	20	3200	SA	STSL	3		ADLT	TR(S)	None	None	N	3
4	1220	2300	3000	SA	STSL	3		ADLT	TR(S)	None	None	N	4

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
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1/25/21	1330	1500	PC	E	10	Lt	0	S	S	Vibe	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1330-1500	1000	3000	BL,SA	HPBK	2		ADLT	M1, FE	V	None	Y	1
2	1345	800	750	SA	STSL	4		ADLT	MI	None	None	N	1
3	1420-1500	2000	3200	SA	HPBK	2		ADLT	MI, FE	V	None	Y	1
4	1220	2300	3000	SA	STSL	3		ADLT	TR(S)	None	None	N	

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
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1/26/21	900	1300	S	E	10	Lt	1	N	N	DR	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	0900-1300	1000	2500	BL,SA	HPBK	4		ADLT	M1, FE	DR	None	Y	4
2	1030	900	2500	SA	STSL	3		ADLT	TR (N)	DR	None	Y	4
3	924	400	800	SA	STSL	1		ADLT	TR (N)	None	None	N	1

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
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1/27/21	1130	1530	OC	E	0	Lt	0	S	S	DR	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1200-1420	2000	3000	BL,SA	HPBK	1		ADLT	MI, FE, DV	DR	None	Y	4
2	1230	2900	2900	SA	STSL	3		ADLT	TR (N)	DR	None	Y	3
3	1425	300	500	SA	STSL	1		ADLT	TR (S)	None	None	N	1

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
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1/29/20	830	1130	OC	E	0	Lt	1	SE	SE	DR	1 - Steel	1,2,3,4	Local Boat Traffic
1/29/20	1230	1400	OC	E	0	Lt	1	SE	SE	DR	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	955-1100	900	3000	SA	HPBK	2		ADLT	MI, FE	DR	None	Y	2
2	1235	30	300	SA	STSL	1		ADLT	TR (E)	None	None	N	1

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
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1/29/20	1300	1700	PC	E	10	Lt	0	S	S	DR	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1410	300	1000	SA	HS	1		ADLT	LO, MI	DR	None	Y	4

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
1/31/20	1000	1115	S	E	10	Lt	0	S	S	Vibe	1 - Steel	1,2,3,4	Local Boat Traffic

Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1015	900	2100	SA	HPBK	1		ADLT	DV	None	None	N	2

January 2021 Summary													
Date	Species	Level B Takes	Level A Takes	% of Level B Area Monitored		Estimated Takes for Total Level B Area							
1/21/21	HPBK	1	0	63%		1.6							
1/25/21	HPBK	4	0	63%		6.3							
1/26/21	HPBK	4	0	69%		5.8							
	STSL	3	0	69%		4.3							
1/28/21	HPBK	1	0	69%		1.4							
	STSL	3	0	69%		4.3							
1/29/21	HPBK	1	0	69%		1.4							
1/30/21	HS	1	0	69%		1.4							

January 2021 Level Total Takes			
Speceis	Level A	Level B	Average Per Day
HPBK		16.6	1.7
STSL		8.7	0.9
HS		1.4	0.1

Halibut Point Marine Services, LLC
Old Sitka Dock North Dolphins Expansion Project

Marine Mammal Monitoring Summary Report - February 2021

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
2/1/21	1000	1700	Snow	G	0	Lt	0	N	N	Drill	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1020	1800	2100	SA	HPBK	2		ADLT	TR (S) / FE	None	None	N	1
2	1108	800	1200	BL / SA	HPBK	2		ADLT	TR (W)	Drill	None	Y	4
3	1220	700	1100	SA	STSL	1		ADLT	MI	Drill	None	Y	1, 2
4	1330	1500	2000	SA	HPBK	2		ADLT	TR (N)	Drill	None	Y	4
5	1450	1000	3000	SA	STSL	1		ADLT	TR (E)	Drill	None	Y	3
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
2/2/21	0930	1330	S	E	10%	Lt	1	N	N	Drill / Vibe	1 - Steel	1,2,3,4	Local Boat Traffic
Shift 2	1500	1600											
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	0845	1000	3800	SA	STSL	7		ADLT	MI	None	None	N	2
2	1020	500	3000	SA	STSL	2		ADLT	TR (S)	Drill	None	Y	3
3	1028	1500	2000	SA	HPBK	1		ADLT	MI / FE	Drill	None	Y	1, 4
4	1130	1500	3500	SA	HPBK	1		ADLT	TR (S)	Drill	None	Y	3
5	1515	1000	2500	SA	HPBK	2		ADLT	MI / FE	Vibe	None	Y	1, 4
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
2/7/21	0830	1000	S	E	10%	Lt	0	S	S	None	1 - Steel	1,2,3,4	Local Boat Traffic
Shift 2	1300	1700											
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	0830	200	1100	SA	STSL	3		ADLT	MI	None	None	N	4
2	1320	1000	3000	SA	STSL	3		ADLT	MI	None	None	N	4
3	1410	2500	3500	SA	HPBK	2		ADLT	MI / FE	None	None	N	1, 3, 2
4	1515	1000	3000	SA	STSL	7		ADLT	MI	None	None	N	3
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
2/8/21	0830	1030	L / SN	G	0%	Mod	2	NE	NE	Impact	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	0850	900	1000	SA	HPBK	2		ADLT	MI / FE	None	None	N	1
2	0930	2000	2000	SA	HPBK	2		ADLT	MI	None	None	Y	1, 4
3	0930	1000	3000	SA	STSL	2		ADLT	TR (NE)	None	None	N	3, 4
4	1000	1500	3800	SA	HPBK	2		ADLT	MI / FE	Impact	None	Y	2
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
2/9/21	1300	1700	S	E	10%	Lt	1	NE	NE	Vibe / Impact	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1300	2000	2500	SA	HPBK	4		ADLT	MI / FE	Vibe / Impact	None	Y	1, 2, 3, 4
2	1445	3100	4000	SA	STSL	12		ADLT	MI	Vibe / Impact	None	Y	3
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
2/13/21	0900	1730	S	E	10%	Lt	0	E	E	Drill	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	0915	1500	3100	SA	STSL	12		ADLT	MI	Drill	None	Y	2, 3
2	0915	900	2500	SA	HPBK	3		ADLT	MI / FE	Drill	None	Y	2
3	0925	800	1500	SA	STSL	1		ADLT	MI / LO	Drill	None	Y	4
4	1015	20	1500	SA	HS	1		ADLT	LO	Drill	None	Y	4
5	1450	2000	3000	SA	HPBK	2		ADLT	MI / FE	Drill	None	Y	1
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
2/14/21	1330	1730	PC	E	10%	Lt	0	NE	NE	Drill	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1330	800	2500	SA	STSL	30		ADLT	FE / RE	Drill	None	Y	1, 2
2	1430	1000	2500	SA	HPBK	2		ADLT	MI / FE	Drill	None	Y	2
3	1615	800	1500	SA	HS	1		ADLT	LO	Drill	None	Y	4
4	1620	700	1000	SA	STSL	3		ADLT	TR (N)	Drill	None	Y	1
5	1715	1000	3700	SA	ORCA	10		ADLT	TR (N)	Drill	None	Y	3
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
2/15/21	0730	1130	S	E	10%	Lt	0	Lt. Airs	Calm	Drill	1 - Steel	1,2,3,4	Local Boat Traffic

Other	17.5	11.2
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Marine Mammal Monitoring Summary Report - April 2021

Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	0910		500	SA	STSL	1		ADLT	TR (S)	Drill	None	Y	1
2	1118		1900	SA	H5	1		ADLT	TR (N)	Drill	None	Y	2
3	1215		1000	SA	H5	1		ADLT	LO	Drill	None	Y	4
4	1220		900	SA	STSL	1		ADLT	TR (E)	Drill	None	Y	1

Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1540		800	SA	STSL	1		ADLT	TR (S)	None	None	N	1
2	1630		1000	SA	HS	1		ADLT	LO	Vibe	None	Y	4

Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
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None

Part 2 Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	0930	800	900	SA	STSL	1		ADLT	TR (SW)	None	None	N	1

April 2021 Summary

Date	Species	Level B Takes	Level A Takes	% of Level B Area Monitored	Estimated Takes for Total Level B Area
4/24/21	STSL	2	0	69%	2.9
	HS	2	0	69%	2.9
4/28/21	HS	1	0	63%	1.6

April 2021 Level Total Takes

Species	Level A	Level B	Average Per Day	
STSL			2.9	0.7
HS			4.5	1.1

Marine Mammal Monitoring Summary Report - May 2021

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/1/21	0930	1030	OC	G	10%	Lt	0	Lt. Airs	NW	None	1 - Steel	1,2,3	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/2/21	0830	1018	PC	E	10%	Calm	0	Lt. Airs	Calm	None	1 - Steel	1,2,3	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/3/21	1230	1530	L / R	G	0%	Lt	1	SW	SW	Drill / Vibe	1 - Steel	1,2,3	Local Boat Traffic
Shift 2	1800	2045											
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
	1	1345	500	700 SA	STSL		1	ADLT	TR (S)	Drill	None	Y	1
	2	1930	200	600 SA	STSL		1	ADLT	LO / MI	Vibe	None	Y	1
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/5/21	1400	1830	OC	E	0%	Lt	1	N	N	None	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/6/21	0900	1050	OC	E	0%	Lt	0	N	N	None	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/7/21	1100	1430	PC	E	10%	Lt	1	NW	NW	Drill	1 - Steel	1,2,3,4	Local Boat Traffic
Shift 2	1700	1820											
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
	1	1315	1000	2300 SA	STSL		1	ADLT	TR (S)	Drill	None	Y	2
	2	1745	2000	3000 SA	HPBK		4	ADLT	MI	Drill	None	Y	1,4
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/8/21	0800	1815	L / R	E	0%	Lt	1	NW	NW	Drill	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
	1	0840	200	800 SA	HS		1	ADLT	LO	Drill	None	Y	1
	2	1745	2000	3000 SA	HPBK		4	ADLT	MI	Drill	None	Y	1,4
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/10/21	1400	1615	L / R	E	0%	Lt	0	W	W	None	1 - Steel	1,2,3,4	Local Boat Traffic
Shift 2	1730	1915											
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/11/21	1200	1700	OC	E	0%	Lt	1	W	W	None	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/12/21	1400	1600	OC	E	10%	Lt	0	NW	NW	None	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/13/21	0800	1400	L / R	G	0%	Lt	1	W	W	None	1 - Steel	1,2,3,4	Local Boat Traffic
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
None													
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locs	Other Human Activity
5/15/21	0800	0840	L / R	M	0%	Lt	1	W	W	Drill	1 - Steel	1,2,3,4	Local Boat Traffic
Shift 2	1530	1830											

Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1530	1000	1200	SA	STSL	2		ADLT	FO / MI	Drill	None	Y	1
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Loc	Other Human Activity
5/17/21	0900	1330	PC	G	10%	Lt	1	N	N	Drill	1 - Steel	1,2,3,4	Local Boat Traffic
Shift 2	1630	2030											
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1800	1000	1200	SA	STSL	2		ADLT	FO / MI	Drill	None	Y	1
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Loc	Other Human Activity
5/27/21	0930	1300	OC	E	0%	Lt	1	NW	NW	Vibe	1 - Steel	1,2,3,4	Local Boat Traffic
Shift 2	1700	2030											
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1020	1200	1500	SA	STSL	3		ADLT	FO / MI	Vibe	None	Y	1
2	1032	900	1500	SA	STSL	1		ADLT	TR (E)	Vibe	None	Y	2
3	1700	1200	1500	SA	STSL	2		ADLT	MI	None	None	N	1
Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Loc	Other Human Activity
5/28/21	0900	1100	L / R	M	0%	Mod	2	W	W	Drill / Vibe	1 - Steel	1,2,3,4	Local Boat Traffic
Shift 2	1230	1600											
Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1330	1000	1200	SA	STSL	2		ADLT	FO / MI	Drill / Vibe	None	Y	1

May 2021 Summary

Date	Species	Level B Takes	Level A Takes	% of Level B Area Monitored	Estimated Takes for Total Level B Area
5/3/21	STSL	1	0	69%	1.4
5/3/21	STSL	1	0	63%	1.6
5/7/21	STSL	1	0	69%	1.4
	HPBK	4	0	69%	5.8
5/7/21	HPBK	4	0	69%	5.8
	HS	1	0	69%	1.4
5/15/21	STSL	2	0	69%	2.9
5/17/21	STSL	2	0	69%	2.9
5/27/21	STSL	4	0	63%	6.3
5/27/21	STSL	2	0	63%	3.2

May 2021 Level Total Takes

Speceis	Level A	Level B	Average Per Day
HPBK		11.6	0.8
STSL		19.8	1.4
HS		1.4	0.1

Halibut Point Marine Services, LLC
Old Sitka Dock North Dolphins Expansion Project

Marine Mammal Monitoring Summary Report - June 2021

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
6/3/21	0830	1230	S	E	10%	Lt	0	Lt. Airs	Calm	Vibe	1 - Steel	1,2,4	Local Boat Traffic

Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	1115	900	800	SA	STSL		1	ADLT	TR (E)	Vibe	None	Y	1

Date	Time Start	Time End	Weather	Visibility	Glare	Wave Height	BSS	Wind	Swell	Piling Activity	Number of Piles	Monitoring Locations	Other Human Activity
6/4/21	0715	0805	OC	E	0%	Lt	0	Lt. Airs	Calm	Vibe	1 - Steel	1,2,3	Local Boat Traffic

Sighting	Time	Meters from Observer	Meters from Const	Sighting Cue	Species	Group Size	Sex	Age	Behavior Code	Construction Activity	Mitigation Type	Exposure	Observer Location
1	0745	500	1000	SA	STSL	2		ADLT	MI	Vibe	None	Y	1

June 2021 Summary

Date	Species	Level B Tal	Level A Takes	% of Level B Area Monitored	Estimated Takes for Total Level B Area
6/3/21	STSL	1	0	63%	1.6
6/4/21	STSL	2	0	63%	3.2

June 2021 Level Total Takes

Species	Level A	Level B	Average Per Day
STSL		4.8	2.4

Event

Code	Activity Type
E ON	Effort On
E OFF	Effort Off
PRE	Pre-Construction Watch
POST	Post-Construction Watch
CON	Construction (see types)
S	Sighting
M	Mitigation (see types)
OR	Observer Rotation

Sighting Cues

Code	Distance Visible
BL	Blow
BO	Body
BR	Breach
DF	Dorsal Fin
SA	Surface Activity
OTHR	Other

Marine Mammal Species

Code	Marine Mammal Species
HS	Harbor Seal
STSL	Steller Sea Lion
HPBK	Humpback Whale
HAPC	Harbor Porpoise
DAPC	Dall's Porpoise
MINK	Minke Whale
ORCA	Killer Whale

Construction Type

Code	Activity Type
V	Vibratory Pile Driving
I	Impact Pile Driving
ST	Stabbing
DR	Drilling
OWC	Over-Water Construction
NOWC	No Over-Water Construction
NONE	No Construction

Mitigation Codes

Code	Activity Type
SS	Soft Start
BC	Bubble Curtain
DE	Delay onset of In-Water Work
SD	Shut down In-Water Work

Visibility

Code	Distance Visible
B	Bad (<0.5km)
P	Poor (0.5 – 0.9km)
M	Moderate (0.9 – 3km)
G	Good (3 - 10km)
E	Excellent (>10km)

Weather Conditions

Code	Weather Condition
S	Sunny
PC	Partly Cloudy
L	Light Rain
R	Steady Rain
F	Fog
OC	Overcast
SN	Snow
HR	Heavy Rain

Wave Height

Code	Wave Height
Light	0 – 3 ft
Moderate	4 – 6 ft
Heavy	>6 ft

Marine Mammal Observation Record – Sighting Codes

Behavior Codes

Code	Behavior	Definition
BR	Breaching	Leaps clear of water
CD	Change Direction	Suddenly changes direction of travel
CH	Chuff	Makes loud, forceful exhalation of air at surface
DI	Dive	Forward dives below surface
DE	Dead	Shows decomposition or is confirmed as dead by investigation
DS	Disorientation	An individual displaying multiple behaviors that have no clear direction or purpose
FI	Fight	Agonistic interactions between two or more individuals
FO	Foraging	Confirmed by food seen in mouth
MI	Milling	Moving slowly at surface, changing direction often, not moving in any particular direction
PL	Play	Behavior that does not seem to be directed towards a particular goal; may involve one, two or more individuals
PO	Porpoising	Moving rapidly with body breaking surface of water
SL	Slap	Vigorously slaps surface of water with body, flippers, tail etc.
SP	Spyhopping	Rises vertically in the water to "look" above the water
SW	Swimming	General progress in a direction. Note general direction of travel when last seen [Example: "SW (N)" for swimming north]
TR	Traveling	Traveling in an obvious direction. Note direction of travel when last seen [Example: "TR (N)" for traveling north]
UN	Unknown	Behavior of animal undetermined, does not fit into another behavior
AWA	Approach Work	
LWA	Leave Work Area	
Pinniped only		
EW	Enter Water (from haul out)	Enters water from a haul-out for no obvious reason
FL	Flush (from haul out)	Enters water in response to disturbance
HO	Haul out (from water)	Hauls out on land
RE	Resting	Resting onshore or on surface of water
LO	Look	Is upright in water "looking" in several directions or at a single focus
SI	Sink	Sinks out of sight below surface without obvious effort (usually from an upright position)
VO	Vocalizing	Animal emits barks, squeals, etc.
Cetacean only		
LG	Logging	Resting on surface of water with no obvious signs of movement

Sea State and Wave Height: Use Beaufort Sea State Scale for Sea State. This refers to the surface layer and whether it is glassy in appearance or full of white caps. In the open ocean, it also considers the wave height or swell, but in inland waters the wave height (swells) may never reach the levels that correspond to the correct surface white cap number. Therefore, include wave height for clarity.

Glare: Percent glare should be the total glare of observers' area of responsibility. Determine if observer coverage is covering 90 degrees or 180 degrees and document daily. Then assess total glare for that area. This will provide needed information on what percentage of the field of view was poor due to glare.

Swell Direction: Swell direction should be where the swell is coming from (S for coming from the south). If possible, record direction relative to fixed location (pier). Choose this location at beginning of monitoring project.

Wind Direction: Wind direction should also be where the wind is coming from.