

PRBO Conservation Science  
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August 29, 2012

Jeannine Cody  
Permits, Conservation, and Education Division  
National Marine Fisheries Service (NMFS)  
Office of Protected Resources  
1315 East-West Highway  
Silver Spring, MD 20910-3226

Dear Jeannine,

Please find enclosed a summary report of pinniped takes from the Incidental Harassment Authorization (IHA) issued to PRBO Conservation Science, Oikonos Ecosystem Knowledge, and Point Reyes National Seashore for the period of July 29, 2011 to July 28, 2012. This IHA supports central California seabird research operations on Southeast Farallon Island, Año Nuevo Island, and Point Reyes National Seashore.

Marine mammals species that were impacted by these activities include the California stocks of northern elephant seal (*Mirounga angustirostris*), harbor seal (*Phoca vitulina richardii*), Steller sea lion (*Eumetopias jubatus*), and California sea lion (*Zalophus californianus*).

All sites reported less than requested take, and no stampede takes were reported at any site. Table 1 summarizes total take numbers for Southeast Farallon Island; Table 2 and 3 show similar results for Año Nuevo Island and Point Reyes National Seashore.

Appendix 1 lists all take for Southeast Farallon Island, by date, location, species, type and number of takes, and activity during which the take was recorded. There are also takes from elephant seal research located at the main elephant seal colony on the south side of Southeast Farallon and on periodic trips to West End Island. Sea Lion Cove, an area on the trail to North Landing, also had many California Sea Lion takes from animals hauled up uncharacteristically high. Appendix 2 and 3 are similar summaries for Año Nuevo Island and Point Reyes National Seashore.

Thank you for reviewing this report, we look forward to hearing from you.

Sincerely,



Russell Bradley  
Farallon Program Manager  
California Current Division  
PRBO Conservation Science  
rbradley@prbo.org

**Table 1.** Summary of total IHA take numbers by species from PRBO on Southeast Farallon Island 7/29/11 to 7/28/12

<b>Species</b>	<b>Total Takes</b>
Northern Elephant Seal (ES)	63
Harbor Seal (HS)	87
Steller Sea Lion (SSL)	6
California Sea Lion (CSL)	4,522

**Table 2.** Summary of total IHA take numbers by species from Oikonos on Año Nuevo Island 7/29/11 to 7/28/12

<b>Species</b>	<b>Total Takes</b>
Northern Elephant Seal (ES)	89
Harbor Seal (HS)	16
Steller Sea Lion (SSL)	6
California Sea Lion (CSL)	578

**Table 3.** Summary of total IHA take numbers by species from National Parks Service at Point Reyes National Seashore 7/29/11 to 7/28/12

<b>Species</b>	<b>Total Takes</b>
Northern Elephant Seal (ES)	10
Harbor Seal (HS)	125
Steller Sea Lion (SSL)	0
California Sea Lion (CSL)	0

**Appendix 1.** All PRBO IHA take by date, species, location, type of take, and activity from Southeast Farallon Island 7/29/11 to 7/28/12.

Date	Species	Location	alerted	# > 1m	# Flushed	Activity	Notes
7/29/2011	CSL	East Landing			70	Daily Operations	
7/30/2011	CSL	East Landing			100	Field Station Resupply	
7/30/2011	CSL	North Landing		30		Daily Operations	
7/31/2011	CSL	East Landing			4	Daily Operations	
7/31/2011	CSL	North Landing		70		Daily Operations	
8/1/2011	CSL	East Landing			25	Field Station Resupply	
8/2/2011	CSL	East Landing			7	Daily Operations	
8/3/2011	CSL	East Landing			55	Daily Operations	
8/4/2011	CSL	North Landing		60		Daily Operations	
8/6/2011	ES	North Landing		5	1	Daily Operations	
8/9/2011	CSL	North Landing			6	Daily Operations	
8/10/2011	CSL	North Landing		24		Daily Operations	
8/14/2011	CSL	East Landing			1	Daily Operations	
8/15/2011	CSL	Sea Lion Cove		70	70	Daily Operations	
8/16/2011	CSL	North Landing			4	Murre Research	
8/28/2011	CSL	ES Colony		50	50	Daily Operations	
9/6/2011	CSL	West End Island			122	Elephant Seal Research	
9/17/2011	ES	East Landing		2		Daily Operations	
9/23/2011	CSL	Sea Lion Cove			6	Daily Operations	
9/26/2011	CSL	West End Island			130	Elephant Seal Research	
10/8/2011	CSL	North Landing	10		10	Daily Operations	
10/12/2011	CSL	North Landing			55	Field Station Resupply	
10/15/2011	ES	ES Colony	5	5		Daily Operations	
10/16/2011	CSL	Sea Lion Cove	25	50	50	Daily Operations	
10/19/2011	CSL	West End Island		55	95	Elephant Seal Research	
10/24/2011	CSL	Sea Lion Cove		10	50	Daily Operations	
10/28/2011	CSL	West End Island			125	Elephant Seal Research	
12/3/2011	CSL	ES Colony	30	30		Daily Operations	
12/6/2011	CSL	North Landing			5	Daily Operations	
12/10/2011	CSL	ES Colony		65	10	Elephant Seal Research	
12/11/2011	CSL	Sea Lion Cove	37	10		Daily Operations	
12/15/2011	CSL	ES Colony			30	Elephant Seal Research	
12/19/2011	CSL	ES Colony		50		Elephant Seal Research	
12/20/2011	CSL	North Landing			30	Daily Operations	
12/21/2011	CSL	ES Colony		40		Elephant Seal Research	
12/27/2011	ES	North Landing	5	5		Daily Operations	
12/28/2011	CSL	North Landing			130	Field Station Resupply	

12/30/2011	HS	ES Colony			1	Elephant Seal Research
12/31/2011	CSL	North Landing			6	Elephant Seal Research
1/2/2012	CSL	ES Colony		25	25	Elephant Seal Research
1/2/2012	HS	ES Colony			1	Daily Operations
1/3/2012	CSL	West End Island		130	50	Elephant Seal Research
1/3/2012	HS	ES Colony			1	Elephant Seal Research
1/4/2012	CSL	ES Colony		15	25	Elephant Seal Research
1/5/2012	CSL	ES Colony	20			Elephant Seal Research
1/5/2012	HS	East Landing			1	Daily Operations
1/6/2012	CSL	ES Colony			3	Elephant Seal Research
1/6/2012	CSL	North Landing	10		10	Daily Operations
1/8/2012	CSL	ES Colony			15	Elephant Seal Research
1/9/2012	HS	Sea Lion Cove			4	Daily Operations
1/12/2012	CSL	ES Colony		20	30	Elephant Seal Research
1/13/2012	CSL	ES Colony		20	30	Elephant Seal Research
1/14/2012	CSL	ES Colony	15		5	Elephant Seal Research
1/16/2012	CSL	North Landing			2	Elephant Seal Research
1/16/2012	HS	East Landing			1	Elephant Seal Research
1/17/2012	CSL	West End Island		75	90	Elephant Seal Research
1/17/2012	CSL	ES Colony			10	Elephant Seal Research
1/18/2012	ES	East Landing	1	2		Daily Operations
1/19/2012	CSL	ES Colony			3	Elephant Seal Research
1/20/2012	CSL	North Landing			40	Field Station Resupply
1/20/2012	ES	North Landing	6	4		Field Station Resupply
1/21/2012	CSL	ES Colony			4	Elephant Seal Research
1/21/2012	HS	ES Colony			2	Elephant Seal Research
1/23/2012	CSL	Sea Lion Cove	20	20		Daily Operations
1/24/2012	CSL	ES Colony		40		Elephant Seal Research
1/25/2012	HS	North Landing			2	Daily Operations
1/27/2012	CSL	ES Colony	10	10	35	Elephant Seal Research
1/27/2012	HS	East Landing			3	Elephant Seal Research
1/31/2012	CSL	North Landing	30		35	Field Station Resupply
2/1/2012	CSL	ES Colony			3	Elephant Seal Research
2/2/2012	CSL	West End Island		75	75	Elephant Seal Research
2/8/2012	CSL	ES Colony			5	Elephant Seal Research
2/12/2012	HS	East Landing	2		3	Daily Operations
2/14/2012	CSL	ES Colony			1	Elephant Seal Research
2/16/2012	HS	North Landing			1	Elephant Seal Research
2/18/2012	HS	ES Colony	4		4	Elephant Seal Research
2/21/2012	CSL	North Landing			6	Elephant Seal Research

2/24/2012	CSL	ES Colony			1	Elephant Seal Research	
2/26/2012	CSL	West End Island	24	120	70	Elephant Seal Research	
2/26/2012	SSL	West End Island			2	Elephant Seal Research	
2/26/2012	HS	ES Colony			1	Elephant Seal Research	
2/27/2012	HS	North Landing			1	Elephant Seal Research	
2/28/2012	HS	ES Colony			1	Elephant Seal Research	
3/3/2012	CSL	North Landing			3	Elephant Seal Research	
3/5/2012	ES	North Landing	3	3		Daily Operations	
3/4/2012	CSL	ES Colony			5	Elephant Seal Research	
3/9/2012	HS	East Landing			6	Elephant Seal Research	
3/10/2012	HS	ES Colony			1	Elephant Seal Research	
3/11/2012	HS	East Landing			2	Elephant Seal Research	
3/14/2012	HS	ES Colony			1	Elephant Seal Research	
3/19/2012	CSL	ES Colony			3	Elephant Seal Research	
3/25/2012	CSL	West End Island			110	Elephant Seal Research	
4/21/2012	HS	North Landing			6	Daily Operations	4 ad, 2 pups
4/30/2012	CSL	East Landing			1	Elephant Seal Research	
5/8/2012	CSL	North Landing	35		80	Field Station Resupply	
5/8/2012	SSL	North Landing			2	Field Station Resupply	
5/8/2012	ES	North Landing	6	3		Field Station Resupply	
5/13/2012	HS	East Landing			3	Daily Operations	
6/19/2012	CSL	East Landing			5	Daily Operations	
6/21/2012	CSL	East Landing			4	Daily Operations	
6/21/2012	HS	East Landing			3	Daily Operations	
6/22/2012	HS	East Landing			5	Daily Operations	
6/25/2012	HS	East Landing			4	Field Station Resupply	
6/26/2012	CSL	East Landing			1	Daily Operations	
6/26/2012	HS	East Landing			5	Daily Operations	
6/28/2012	HS	East Landing			1	Daily Operations	
6/29/2012	CSL	East Landing			13	Daily Operations	
6/29/2012	CSL	North Landing			40	Field Station Resupply	
6/29/2012	ES	North Landing	5	2		Field Station Resupply	
6/29/2012	HS	East Landing			2	Daily Operations	
6/30/2012	HS	East Landing			2	Field Station Resupply	
7/1/2012	CSL	East Landing			70	Field Station Resupply	
7/1/2012	HS	East Landing			2	Field Station Resupply	
7/2/2012	CSL	East Landing			23	Daily Operations	
7/3/2012	CSL	East Landing			30	Daily Operations	
7/4/2012	CSL	East Landing			22	Daily Operations	
7/4/2012	HS	East Landing			3	Daily Operations	

7/5/2012	CSL	East Landing			32	Daily Operations	
7/5/2012	HS	East Landing			1	Daily Operations	
7/6/2012	CSL	East Landing			43	Daily Operations	
7/7/2012	CSL	East Landing			3	Field Station Resupply	
7/7/2012	HS	East Landing			4	Daily Operations	
7/8/2012	CSL	East Landing			5	Field Station Resupply	
7/9/2012	CSL	ES Colony			80	Daily Operations	
7/9/2012	SSL	East Landing			2	Daily Operations	
7/10/2012	CSL	East Landing			35	Daily Operations	
7/10/2012	CSL	North Landing		40		Daily Operations	
7/11/2012	CSL	East Landing			20	Daily Operations	
7/13/2012	CSL	East Landing			35	Daily Operations	
7/13/2012	CSL	North Landing		15		Murre Research	
7/15/2012	CSL	North Landing		50		Daily Operations	
7/16/2012	CSL	North Landing		80		Murre Research	
7/17/2012	CSL	East Landing			55	Field Station Resupply	
7/17/2012	CSL	North Landing		45		Murre Research	
7/17/2012	HS	East Landing			1	Field Station Resupply	
7/18/2012	CSL	East Landing			10	Field Station Resupply	
7/19/2012	CSL	ES Colony			35	Daily Operations	
7/20/2012	CSL	North Landing		70		Murre Research	
7/21/2012	CSL	East Landing			10	Daily Operations	
7/23/2012	CSL	North Landing		70		Murre Research	
7/23/2012	CSL	East Landing			20	Daily Operations	
7/25/2012	CSL	North Landing		20		Daily Operations	
7/25/2012	HS	East Landing			1	Daily Operations	
7/27/2012	CSL	North Landing		50		Murre Research	
7/27/2012	HS	East Landing			1	Daily Operations	
7/28/2012	CSL	North Landing		40		Murre Research	

**Appendix 2.** All Oikonos IHA take by date, species, location, type of take, and activity from Año Nuevo Island 7/29/11 to 7/28/12.

Date	Species	Location	Alert	Moved >1 m	Flushed to Water	Activity
8/3/2011	CSL	Landing Cove	15	5	5	seabird monitoring
8/3/2011	ES	Landing Cove	0	0	0	seabird monitoring
8/3/2011	HS	Landing Cove	0	0	0	seabird monitoring

8/3/2011	SSL	Landing Cove	2	0	0	seabird monitoring
8/10/2011	CSL	Landing Cove	15	5	8	seabird monitoring
8/10/2011	ES	Landing Cove	4	0	2	seabird monitoring
8/10/2011	HS	Landing Cove	0	0	0	seabird monitoring
8/10/2011	SSL	Landing Cove	1	0	0	seabird monitoring
8/17/2011	CSL	Landing Cove	20	10	2	seabird monitoring
8/17/2011	ES	Landing Cove	4	3	0	seabird monitoring
8/17/2011	HS	Landing Cove	0	0	0	seabird monitoring
8/17/2011	SSL	Landing Cove	0	0	0	seabird monitoring
8/24/2011	CSL	Landing Cove	15	10	10	seabird monitoring
8/24/2011	ES	Landing Cove	1	5	0	seabird monitoring
8/24/2011	HS	Landing Cove	0	0	0	seabird monitoring
8/24/2011	SSL	Landing Cove	0	0	0	seabird monitoring
1/30/2012	CSL	Landing Cove	0	0	0	seabird monitoring
1/30/2012	ES	Landing Cove	2	1	0	seabird monitoring
1/30/2012	HS	Landing Cove	0	0	0	seabird monitoring
1/30/2012	SSL	Landing Cove	0	0	0	seabird monitoring
3/5/2012	CSL	Landing Cove	0	0	0	seabird monitoring
3/5/2012	ES	Landing Cove	6	2	0	seabird monitoring
3/5/2012	HS	Landing Cove	0	0	0	seabird monitoring
3/5/2012	SSL	Landing Cove	0	0	0	seabird monitoring
4/9/2012	CSL	Landing Cove	0	0	0	seabird monitoring
4/9/2012	ES	Landing Cove	4	2	1	seabird monitoring
4/9/2012	HS	Landing Cove	0	0	0	seabird monitoring
4/9/2012	SSL	Landing Cove	0	0	0	seabird monitoring
4/16/2012	CSL	Landing Cove	0	0	0	seabird monitoring
4/16/2012	ES	Landing Cove	5	1	0	seabird monitoring
4/16/2012	HS	Landing Cove	2	0	0	seabird monitoring
4/16/2012	SSL	Landing Cove	0	0	0	seabird monitoring
4/25/2012	CSL	Landing Cove	0	3	2	seabird monitoring

4/25/2012	ES	Landing Cove	4	0	2	seabird monitoring
4/25/2012	HS	Landing Cove	2	0	1	seabird monitoring
4/25/2012	SSL	Landing Cove	0	0	0	seabird monitoring
4/30/2012	CSL	Landing Cove	0	4	8	seabird monitoring
4/30/2012	ES	Landing Cove	3	0	0	seabird monitoring
4/30/2012	HS	Landing Cove	0	0	0	seabird monitoring
4/30/2012	SSL	Landing Cove	0	0	0	seabird monitoring
5/1/2012	CSL	Landing Cove	5	4	4	seabird monitoring
5/1/2012	ES	Landing Cove	2	3	1	seabird monitoring
5/1/2012	HS	Landing Cove	1	1	0	seabird monitoring
5/1/2012	SSL	Landing Cove	0	0	0	seabird monitoring
5/8/2012	CSL	Landing Cove	10	2	0	seabird monitoring
5/8/2012	ES	Landing Cove	4	0	0	seabird monitoring
5/8/2012	HS	Landing Cove	0	0	1	seabird monitoring
5/8/2012	SSL	Landing Cove	0	0	0	seabird monitoring
5/15/2012	CSL	Landing Cove	20	0	5	seabird monitoring
5/15/2012	ES	Landing Cove	3	0	0	seabird monitoring
5/15/2012	HS	Landing Cove	0	0	0	seabird monitoring
5/15/2012	SSL	Landing Cove	0	0	0	seabird monitoring
5/22/2012	CSL	Landing Cove	10	5	2	seabird monitoring
5/22/2012	ES	Landing Cove	2	0	0	seabird monitoring
5/22/2012	HS	Landing Cove	0	0	0	seabird monitoring
5/22/2012	SSL	Landing Cove	0	0	0	seabird monitoring
5/29/2012	CSL	Landing Cove	18	0	0	seabird monitoring
5/29/2012	ES	Landing Cove	3	0	0	seabird monitoring
5/29/2012	HS	Landing Cove	3	1	0	seabird monitoring
5/29/2012	SSL	Landing Cove	0	0	0	seabird monitoring
6/5/2012	CSL	Landing Cove	18	5	2	seabird monitoring
6/5/2012	ES	Landing Cove	4	0	0	seabird monitoring
6/5/2012	HS	Landing Cove	0	0	1	seabird monitoring

6/5/2012	SSL	Landing Cove	0	0	0	seabird monitoring
6/12/2012	CSL	Landing Cove	10	0	30	seabird monitoring
6/12/2012	ES	Landing Cove	3	0	0	seabird monitoring
6/12/2012	HS	Landing Cove	0	0	0	seabird monitoring
6/12/2012	SSL	Landing Cove	0	0	0	seabird monitoring
6/27/2012	CSL	Landing Cove	25	5	5	seabird monitoring
6/27/2012	ES	Landing Cove	5	1	1	seabird monitoring
6/27/2012	HS	Landing Cove	0	0	0	seabird monitoring
6/27/2012	SSL	Landing Cove	0	0	0	seabird monitoring
7/3/2012	CSL	Landing Cove	30	25	6	seabird monitoring
7/3/2012	ES	Landing Cove	5	0	0	seabird monitoring
7/3/2012	HS	Landing Cove	0	0	0	seabird monitoring
7/3/2012	SSL	Landing Cove	0	0	0	seabird monitoring
7/10/2012	CSL	Landing Cove	40	0	5	seabird monitoring
7/10/2012	ES	Landing Cove	0	0	0	seabird monitoring
7/10/2012	HS	Landing Cove	0	0	3	seabird monitoring
7/10/2012	SSL	Landing Cove	1	0	0	seabird monitoring
7/17/2012	CSL	Landing Cove	45	5	20	seabird monitoring
7/17/2012	ES	Landing Cove	0	0	0	seabird monitoring
7/17/2012	HS	Landing Cove	0	0	0	seabird monitoring
7/17/2012	SSL	Landing Cove	1	0	0	seabird monitoring
7/24/2012	CSL	Landing Cove	50	20	10	seabird monitoring
7/24/2012	ES	Landing Cove	0	0	0	seabird monitoring
7/24/2012	HS	Landing Cove	0	0	0	seabird monitoring
7/24/2012	SSL	Landing Cove	1	0	0	seabird monitoring

**Appendix 3.** All Point Reyes National Seashore IHA take by date, species, location, type of take and activity at National Parks in the San Francisco Bay Area, California 2/19/10 to 2/18/11.

Date	Species	Location	Alert	moved >1 m	Flushed to Water	Activity	Notes
1/23/2012	ES	Drakes Beach, California	2	2	2	Flush seals with tarp	Moving seals out of parking lot at Drakes Beach Visitor Center
1/25/2012	ES	Drakes Beach, California	1	1	1	Flush seals with tarp	Moving seals out of parking lot at Drakes Beach Visitor Center
3/2/2012	ES	Drakes Beach, California	1	1	1	Flush seals with tarp	Moving seals out of parking lot at Drakes Beach Visitor Center
4/19/2012	ES	Drakes Beach, California	1	1	1	Flush seals with tarp	Moving seals out of parking lot at Drakes Beach Visitor Center
6/21/2012	HS	Point Bonita, California	75	30	20	Intertidal monitoring	Conducting research of intertidal Community as part of long-term study for NPS