

Appendix 1.

Colony	Year	Count	Survey.Date	Organization	Survey.type	lat	long	Region
Alviso Plant, Pond No. A18	1994	2	7/23/1994	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	1995	4	7/8/1995	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	1996	15	6/8/1996	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	1997	24	6/24/1997	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	2010	32	7/13/2010	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	2011	22	7/19/2011	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	2012	8	7/11/2012	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	2013	14	5/31/2013	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	2015	15	6/19/2015	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	2016	20	5/31/2016	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond No. A18	2017	15	5/24/2017	SFBBO	Ground	37.44986778	-121.9510735	South Bay
Alviso Plant, Pond Nos. A9 and A10	1998	10	7/3/1998	Bousman (2007)		37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2003	39			Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2004	174	6/2/2004	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2004	57	6/8/2004	SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2005	186	5/31/2005	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2005	29	8/8/2005	SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2006	141	5/31/2006	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2007	102	5/29/2007	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2008	46	6/6/2008	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2008	0		SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2009	43	5/29/2009	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2009	0		SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2010	49	6/2/2010	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2011	187	6/3/2011	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2011	130	5/23/2011	SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2012	156	6/12/2012	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2013	248	6/3/2013	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2013	160	5/24/2013	SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2014	275	6/4/2014	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2014	160	5/14/2014	SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2015	243	6/4/2015	FWS	Aerial	37.45326593	-122.0020838	South Bay

Alviso Plant, Pond Nos. A9 and A10	2015	343	5/9/2015	SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2016	329	6/15/2016	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2016	79	5/5/2016	SFBBO	Ground	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2017	235	6/6/2017	FWS	Aerial	37.45326593	-122.0020838	South Bay
Alviso Plant, Pond Nos. A9 and A10	2017	56	5/10/2017	SFBBO	Ground	37.45326593	-122.0020838	South Bay
Bohannon Slough	2006	0	5/22/2006	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2007	101	5/30/2007	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2008	34	5/29/2008	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2010	77	5/25/2010	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2011	158	5/25/2011	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2012	102	5/30/2012	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2013	149	5/23/2013	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2014	186	5/22/2014	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2015	68	5/27/2015	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2016	82	5/31/2016	ACR	Ground	38.18266605	-121.9565	North Bay
Bohannon Slough	2017	64	5/22/2017	ACR	Ground	38.18266605	-121.9565	North Bay
Bolinas Lagoon	2015	0			Ground	37.91157521	-122.6814776	Outer Coast
Bolinas Lagoon	2016	2	6/20/2016	ACR	Ground	37.91157521	-122.6814776	Outer Coast
Bolinas Lagoon	2017	0	6/24/2017	ACR	Ground	37.91157521	-122.6814776	Outer Coast
Bunting Pond	2012	0		SFBBO	Ground	37.57067274	-121.9747013	South Bay
Bunting Pond	2016	2	3/3/2016	SFBBO	Ground	37.57067274	-121.9747013	South Bay
Donlon Island	1990	28	6/17/1990	FWS	Boat	38.02896859	-121.7812939	North Bay
Donlon Island	2001	0		FWS	Aerial	38.02896859	-121.7812939	North Bay
Donlon Island	2008	0	6/6/2008	FWS	Aerial	38.02896859	-121.7812939	North Bay
Dumbarton Bridge Power Towers	2003	0	5/30/2003	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2005	42	5/31/2005	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2006	101	5/31/2006	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2007	67	5/29/2007	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2008	160	6/6/2008	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2009	77	5/29/2009	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2010	124	6/2/2010	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2010	49	7/27/2010	SFBBO	Ground	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2011	98	6/3/2011	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2011	51	6/9/2011	SFBBO	Ground	37.50420789	-122.1234473	South Bay

Dumbarton Bridge Power Towers	2012	90	6/12/2012	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2012	45	6/15/2013	SFBBO	Ground	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2013	109	6/3/2013	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2013	66	6/14/2012	SFBBO	Ground	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2014	83	6/4/2014	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2014	75	6/8/2014	SFBBO	Ground	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2015	101	5/4/2015	SFBBO	Ground	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2016	76	6/19/2016	SFBBO	Ground	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2017	104	6/6/2017	FWS	Aerial	37.50420789	-122.1234473	South Bay
Dumbarton Bridge Power Towers	2017	107	6/5/2017	SFBBO	Ground	37.50420789	-122.1234473	South Bay
Hidden Cove	2005	5	5/19/2005	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2006	0	5/22/2006	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2007	0	5/30/2007	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2008	0	5/29/2008	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2009	0	5/20/2009	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2010	0	5/25/2010	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2011	0	5/25/2011	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2012	0	5/30/2012	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2013	0	5/20/2013	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2014	0	5/22/2014	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2015	0	5/27/2015	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2016	0	5/31/2016	ACR	Ground	38.14880809	-121.9187735	North Bay
Hidden Cove	2017	0	5/22/2017	ACR	Ground	38.14880809	-121.9187735	North Bay
Hog Island	2000	0		ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2001	12	6/30/2001	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2002	56	6/30/2002	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2003	96	7/18/2003	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2003	112	5/28/2003	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2004	234	6/5/2004	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2004	401	5/25/2004	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2005	164	7/29/2005	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2005	249	5/31/2005	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2006	328	7/21/2006	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2006	323	6/14/2006	FWS	Aerial	38.1972169	-122.9351429	Outer Coast

Hog Island	2007	175	5/28/2007	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2007	286	5/30/2007	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2008	259	7/2/2008	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2008	285	6/2/2008	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2009	365	7/9/2009	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2009	298	5/26/2009	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2010	285	7/30/2010	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2010	558	6/1/2010	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2011	548	6/24/2011	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2011	591	6/2/2011	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2012	467	7/3/2012	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2012	369	6/9/2012	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2013	731	6/27/2013	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2013	694	6/11/2013	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2014	709	7/11/2014	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2014	771	6/4/2014	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2015	392	7/8/2015	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2015	481	6/2/2015	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2016	486	7/23/2016	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Hog Island	2016	438	6/13/2006	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2017	416	6/4/2017	FWS	Aerial	38.1972169	-122.9351429	Outer Coast
Hog Island	2017	414	8/5/2017	ACR	Ground	38.1972169	-122.9351429	Outer Coast
Knight Island	1989	125	6/17/1989	FWS	Ground	38.13813562	-122.2925604	North Bay
Knight Island	1990	65	7/20/1990	FWS	Ground	38.13813562	-122.2925604	North Bay
Knight Island	1994	186	6/4/1994	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2003	200	5/29/2003	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2004	122	5/27/2004	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2005	121	5/31/2005	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2006	115	5/31/2006	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2007	79	6/6/2007	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2008	37	6/5/2008	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2009	73	5/29/2009	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2010	100	6/2/2010	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2011	7	6/2/2011	FWS	Aerial	38.13813562	-122.2925604	North Bay

Knight Island	2012	44	6/9/2012	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2013	40	6/10/2013	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2014	11	6/4/2014	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2015	0	6/4/2015	FWS	Aerial	38.13813562	-122.2925604	North Bay
Knight Island	2016	0	6/15/2016	FWS	Aerial	38.13813562	-122.2925604	North Bay
Lake Merced	1997	11	5/15/1997	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2001	15	3/11/2001	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2002	126	5/27/2002	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2003	142	7/19/2003	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2004	190	5/30/2004	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2005	184	6/1/2005	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2006	288	6/18/2006	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2007	319	6/4/2007	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2008	226	6/8/2008	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2009	99	5/16/2009	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2010	153	5/29/2010	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2011	129	6/5/2011	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2012	125	5/19/2012	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2013	152	6/1/2013	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2014	177	6/11/2014	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2015	146	6/21/2015	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2016	114	5/21/2016	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merced	2017	113	6/17/2017	SFBBO	Ground	37.72170015	-122.4945895	Outer Coast
Lake Merritt	1998	10	7/12/1998	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	1999	24	4/21/1999	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2000	30	5/13/2000	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2001	53	6/3/2001	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2002	87	5/11/2002	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2003	103	5/24/2003	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2004	144	5/16/2004	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2005	103	5/31/2005	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2005	147	5/15/2005	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2006	201	5/31/2006	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2006	158	6/4/2006	SFBBO	Ground	37.80655873	-122.2550445	South Bay

Lake Merritt	2007	151	5/29/2007	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2007	141	6/2/2007	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2008	87	6/6/2008	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2008	93	6/8/2008	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2009	86	5/29/2009	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2009	68	5/19/2009	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2010	119	6/2/2010	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2010	83	6/20/2010	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2011	117	6/3/2011	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2011	87	6/19/2011	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2012	110	6/12/2012	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2012	97	6/3/2012	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2013	125	6/3/2013	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2013	142	6/1/2013	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2014	109	6/4/2014	FWS	Aerial	37.80655873	-122.2550445	South Bay
Lake Merritt	2014	117	5/4/2014	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2015	78	5/16/2015	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2016	98	7/2/2016	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Lake Merritt	2017	107	5/20/2017	SFBBO	Ground	37.80655873	-122.2550445	South Bay
Leslie Salt Pond	1997	7	5/9/1997	ACR	Ground	38.2004273	-122.3384979	North Bay
Leslie Salt Pond	1998	1	6/5/1998	ACR	Ground	38.2004273	-122.3384979	North Bay
Leslie Salt Pond	1999	3	6/5/1999	ACR	Ground	38.2004273	-122.3384979	North Bay
Leslie Salt Pond	2000	2	5/15/2000	ACR	Ground	38.2004273	-122.3384979	North Bay
Leslie Salt Pond	2001	0	5/11/2001	ACR	Ground	38.2004273	-122.3384979	North Bay
Leslie Salt Pond	2017	0	5/16/2017	ACR	Ground	38.2004273	-122.3384979	North Bay
Moffett Towers	1992	2		Bousman (2007)		37.44630001	-122.0515113	South Bay
Moffett Towers	1993	6		Bousman (2007)		37.44630001	-122.0515113	South Bay
Moffett Towers	1994	11	6/20/1994	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	1995	1	7/15/1995	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	1998	5	7/12/1998	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	1999	4	6/7/1999	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2005	6	7/16/2005	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2006	43	7/9/2006	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2007	43	7/9/2007	SFBBO	Ground	37.44630001	-122.0515113	South Bay

Moffett Towers	2008	65	7/6/2008	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2009	31	5/16/2009	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2010	36	6/20/2010	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2011	27	7/8/2011	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2012	24	7/9/2012	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2013	33	5/19/2013	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2014	31	6/20/2014	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2015	51	6/21/2015	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2016	60	5/21/2016	SFBBO	Ground	37.44630001	-122.0515113	South Bay
Moffett Towers	2017	59	7/1/2017	SFBBO	Ground	37.44630001	-122.0515113	South Bay
North San Pablo Bay Radar Target	1990	20	6/19/1990	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	1994	12	6/4/1994	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2003	15	5/30/2003	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2004	18	5/27/2004	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2005	16	5/31/2005	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2006	17	5/31/2006	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2007	6	6/6/2007	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2008	6	6/5/2008	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2009	5	5/29/2009	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2010	10	6/2/2010	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2011	6	6/2/2011	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2012	1	6/9/2012	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2013	0	6/10/2013	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2014	0	6/4/2014	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2015	0	6/4/2015	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2016	0	6/15/2016	FWS	Aerial	38.10111156	-122.3277836	North Bay
North San Pablo Bay Radar Target	2017	0	6/4/2017	FWS	Aerial	38.10111156	-122.3277836	North Bay
Northeast San Pablo Bay Beacon	1990	4	6/18/1990	FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	1994	4	6/4/1994	FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2003	4	5/30/2003	FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2007	3	6/6/2007	FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2008	2	6/5/2008	FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2009	2	5/29/2009	FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2010	3	6/2/2010	FWS	Aerial	38.07133247	-122.2892482	North Bay

Northeast San Pablo Bay Beacon	2011	3	6/2/2011 FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2012	2	6/9/2012 FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2013	3	6/10/2013 FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2014	4	6/4/2014 FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2016	4	6/15/2016 FWS	Aerial	38.07133247	-122.2892482	North Bay
Northeast San Pablo Bay Beacon	2017	6	6/4/2017 FWS	Aerial	38.07133247	-122.2892482	North Bay
Pescadero Marsh	2012	2	5/25/2012 SFBBO	Ground	37.26787828	-122.4041509	Outer Coast
Pescadero Marsh	2013	4	6/14/2013 SFBBO	Ground	37.26787828	-122.4041509	Outer Coast
Pescadero Marsh	2014	5	6/20/2014 SFBBO	Ground	37.26787828	-122.4041509	Outer Coast
Pescadero Marsh	2015	4	6/5/2015 SFBBO	Ground	37.26787828	-122.4041509	Outer Coast
Pescadero Marsh	2016	4	6/17/2016 SFBBO	Ground	37.26787828	-122.4041509	Outer Coast
Pescadero Marsh	2017	4	4/4/2017 SFBBO	Ground	37.26787828	-122.4041509	Outer Coast
Petaluma Wastewater Treatment Plant	1997	2	6/23/1997 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	1998	4	5/31/1998 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	1999	6	6/10/1999 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2000	6	6/4/2000 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2001	9	6/4/2001 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2002	13	5/15/2002 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2003	11	4/30/2003 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2004	0	4/15/2004 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2005	2	4/10/2005 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2006	3	5/1/2006 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2007	0	4/23/2007 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2008	0	5/20/2008 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2009	0	5/22/2009 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2010	2	6/24/2010 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2011	4	6/17/2011 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2012	12	6/15/2012 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2013	13	5/3/2013 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2014	14	5/16/2014 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2015	13	5/10/2015 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2016	15	5/23/2016 ACR	Ground	38.22224275	-122.5803815	North Bay
Petaluma Wastewater Treatment Plant	2017	19	5/14/2017 ACR	Ground	38.22224275	-122.5803815	North Bay
Plant No. 1, Pond No. 3A	2013	10	5/23/2013 SFBBO	Ground	37.55366658	-122.115317	South Bay

Plant No. 1, Pond No. 3A	2014	40	5/13/2014	SFBBO	Ground	37.55366658	-122.115317	South Bay
Plant No. 1, Pond No. 3A	2015	46	5/12/2015	SFBBO	Ground	37.55366658	-122.115317	South Bay
Plant No. 1, Pond No. 3A	2016	106	6/15/2016	FWS	Aerial	37.55366658	-122.115317	South Bay
Plant No. 1, Pond No. 3A	2017	74	6/6/2017	FWS	Aerial	37.55366658	-122.115317	South Bay
Plant No. 1, Pond No. 3A	2017	44	5/11/2017	SFBBO	Ground	37.55366658	-122.115317	South Bay
Red Rock Island	1994	10	6/16/1994	SFBBO	Ground	37.92949597	-122.4312352	North Bay
Redwood Creek	2003	37		SFBBO	Ground	37.524127	-122.203732	South Bay
Redwood Creek	2004	108	5/27/2004	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2005	90	5/31/2005	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2006	114	5/31/2006	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2007	63	5/29/2007	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2008	95	6/6/2008	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2009	52	5/29/2009	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2010	85	6/2/2010	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2011	54	6/3/2011	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2012	60	6/12/2012	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2013	66	6/3/2013	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2014	58	6/4/2014	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2015	46	6/4/2015	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2016	25	6/15/2016	FWS	Aerial	37.524127	-122.203732	South Bay
Redwood Creek	2017	36	6/6/2017	FWS	Aerial	37.524127	-122.203732	South Bay
Richmond-San Rafael Bridge	1984	5	7/3/1984	Campbell & LeValley 1984	Boat/Ground	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	1988	296		Point Blue	Boat/Ground	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	1989	208	7/8/1989	Point Blue	Boat/Ground	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	1989	394		Point Blue	Boat/Ground	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	1990	218	6/23/1990	Point Blue	Boat/Ground	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	1990	424		Point Blue	Boat/Ground	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	1994	192	5/11/1994	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	1999	500	6/18/1999	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2000	564	6/3/2000	Point Blue	Boat/Ground	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2003	632	6/20/2003	FWS	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2004	482	6/18/2004	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2005	336	6/15/2005	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2007	482	5/16/2007	Point Blue	Boat	37.93300285	-122.4130581	Bridges

Richmond-San Rafael Bridge	2008	266	5/30/2008	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2009	169	6/5/2009	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2010	287	6/9/2010	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2011	288	6/2/2011	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2012	292	5/11/2012	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2013	330	6/4/2013	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2014	409	5/28/2014	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2015	139	6/4/2015	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Richmond-San Rafael Bridge	2016	276	6/25/2016	Point Blue	Boat	37.93300285	-122.4130581	Bridges
Russ Island	1990	153	6/5/1990	Point Blue	Ground	38.18919707	-122.3304234	North Bay
Russ Island	1994	155	6/4/1994	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	1999	25	5/8/1999	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2000	31	6/5/2000	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2001	1	4/9/2001	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2002	0	5/11/2002	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2003	0	3/28/2003	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2004	0		ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2005	29	3/30/2005	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2005	68	5/31/2005	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2006	38	5/10/2006	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2006	101	5/31/2006	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2007	45	5/1/2007	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2007	65	6/6/2007	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2008	38	6/5/2008	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2009	45	5/4/2009	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2009	47	5/29/2009	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2010	46	4/23/2010	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2010	41	6/2/2010	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2011	33	6/12/2011	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2011	47	6/2/2011	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2012	18	6/3/2012	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2012	16	6/9/2012	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2013	5	6/10/2013	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2014	28	6/4/2014	FWS	Aerial	38.18919707	-122.3304234	North Bay

Russ Island	2015	0	6/4/2015	FWS	Aerial	38.18919707	-122.3304234	North Bay
Russ Island	2016	0	5/8/2016	ACR	Ground	38.18919707	-122.3304234	North Bay
Russ Island	2017	0	5/16/2017	ACR	Ground	38.18919707	-122.3304234	North Bay
Ryer Island	2012	32	5/30/2012	ACR	Boat	38.07747095	-122.0039217	North Bay
Ryer Island	2013	23	5/20/2013	ACR	Boat	38.07747095	-122.0039217	North Bay
Ryer Island	2014	38	5/22/2014	ACR	Boat	38.07747095	-122.0039217	North Bay
Ryer Island	2015	24	5/27/2015	ACR	Boat	38.07747095	-122.0039217	North Bay
Ryer Island	2016	29	5/31/2016	ACR	Boat	38.07747095	-122.0039217	North Bay
Ryer Island	2017	23	5/22/2017	ACR	Boat	38.07747095	-122.0039217	North Bay
S.F.-Oakland Bay Br. East	1984	102	7/15/1984	Campbell & LeValley 1984	Boat/Ground	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	1988	353		Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	1990	465	6/4/1990	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	1994	341	6/16/1994	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	1999	796	6/18/1999	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2000	594	6/30/2000	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2003	745	6/20/2003	FWS	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2004	723	6/18/2004	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2005	446	6/15/2005	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2007	814	5/16/2007	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2008	310	5/30/2008	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2009	83	6/5/2009	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2010	250	6/9/2010	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2011	259	6/2/2011	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2012	409	5/11/2012	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2013	421	6/4/2013	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2014	533	5/28/2014	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2015	218	6/4/2015	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2016	187	6/25/2016	Point Blue	Boat	37.81999283	-122.3437257	Bridges
S.F.-Oakland Bay Br. East	2017	319	6/9/2017	CalTrans	Ground	37.81999283	-122.3437257	Bridges
San Mateo Bridge and PG&E Towers	1988	6	6/25/1988	SFBBO	Ground	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1989	28	6/18/1989	SFBBO	Ground	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1990	76	6/22/1990	FWS	Boat	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1990	45	6/10/1990	SFBBO	Ground	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1991	39	5/6/1991	SFBBO	Ground	37.60112183	-122.2120329	South Bay

San Mateo Bridge and PG&E Towers	1993	66	5/28/1993	FWS	Aerial	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1993	75	5/29/1993	SFBBO	Ground	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1994	106	5/15/1994	SFBBO	Ground	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1995	100	6/4/1995	SFBBO	Ground	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1996	21	6/2/1996	SFBBO	Ground	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	1999	208	5/5/1999	SFBBO	Ground	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	2003	105	5/30/2003	FWS	Aerial	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	2005	78	6/2/2005	FWS	Boat	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	2014	110	5/9/2014	FWS	Boat	37.60112183	-122.2120329	South Bay
San Mateo Bridge and PG&E Towers	2015	127	6/11/2015	FWS	Boat	37.60112183	-122.2120329	South Bay
Sherman Island	2007	0	5/30/2007	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2008	2	5/29/2008	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2009	0	5/20/2009	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2010	0	5/25/2010	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2011	0	5/25/2011	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2012	0	5/30/2012	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2013	0	5/20/2013	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2014	0	5/22/2014	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2015	0	5/27/2015	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2016	0	5/31/2016	ACR	Boat	38.02702249	-121.7953401	North Bay
Sherman Island	2017	0	5/22/2017	ACR	Boat	38.02702249	-121.7953401	North Bay
South Farallon Islands	1987	246	5/26/1987	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1988	266	5/23/1988	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1989	475	5/23/1989	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1990	373	5/29/1990	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1993	365	5/27/1993	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1994	354	6/4/1994	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1995	413	6/2/1995	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1996	298	5/28/1996	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1997	395	6/2/1997	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1998	244	5/26/1998	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	1999	450	6/2/1999	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2000	414	6/6/2000	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2001	417	5/30/2001	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands

South Farallon Islands	2002	520	5/31/2002	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2003	439	5/30/2003	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2004	561	5/24/2004	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2005	337	6/10/2005	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2006	607	6/7/2006	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2007	462	5/30/2007	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2008	334	6/2/2008	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2011	362	6/3/2011	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2013	321	6/11/2013	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2014	323	6/9/2014	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2015	142	6/3/2015	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2016	227	6/15/2016	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
South Farallon Islands	2017	205	6/4/2017	FWS	Aerial	37.698393	-123.0097101	South Farallon Islands
Spoonbill Slough	2006	0	5/22/2006	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2007	0	5/30/2007	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2008	0	5/29/2008	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2009	0	5/20/2009	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2010	0	5/25/2010	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2011	25	5/25/2011	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2012	29	5/30/2012	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2013	38	5/20/2013	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2014	45	5/22/2014	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2015	40	5/27/2015	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2016	23	5/31/2016	ACR	Ground	38.05469878	-121.8933519	North Bay
Spoonbill Slough	2017	50	5/22/2017	ACR	Ground	38.05469878	-121.8933519	North Bay
Steinberger Slough	1992	27	5/22/1992	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	1993	117	6/27/1993	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	1994	110	6/5/1994	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	1995	180	7/16/1995	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	1996	180	6/7/1996	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	1997	290	6/22/1997	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	1998	207	6/7/1998	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	1999	325	6/19/1999	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2000	205	7/25/2000	SFBBO	Ground	37.537519	-122.227734	South Bay

Steinberger Slough	2001	267	6/8/2001	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2002	249	5/11/2002	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2003	233	6/9/2003	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2003	191	5/30/2003	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2004	290	5/15/2004	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2004	241	5/27/2004	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2005	256	6/5/2005	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2005	214	5/31/2005	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2006	305	5/6/2006	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2006	259	5/31/2006	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2007	162	6/3/2007	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2007	167	5/29/2007	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2008	205	5/21/2008	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2008	199	6/6/2008	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2009	134	6/10/2009	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2009	104	5/29/2009	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2010	162	6/8/2010	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2010	130	6/2/2010	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2011	136	5/7/2011	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2011	102	6/3/2011	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2012	152	5/21/2012	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2012	155	6/12/2012	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2013	170	5/18/2013	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2013	140	6/3/2013	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2014	164	5/3/2014	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2014	109	6/4/2014	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2015	95	5/4/2015	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2015	40	6/4/2015	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2016	110	6/19/2016	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2016	109	6/15/2016	FWS	Aerial	37.537519	-122.227734	South Bay
Steinberger Slough	2017	144	5/21/2017	SFBBO	Ground	37.537519	-122.227734	South Bay
Steinberger Slough	2017	140	6/6/2017	FWS	Aerial	37.537519	-122.227734	South Bay
Wheeler Island	1991	27	5/23/1991	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	1992	39	5/26/1992	ACR	Boat	38.07861119	-121.965859	North Bay

Wheeler Island	1994	44	4/15/1994	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	1995	72	5/26/1995	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	1996	93	5/29/1996	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	1997	94	5/19/1997	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	1998	143	5/21/1998	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	1999	110	5/26/1999	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2000	131	5/12/2000	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2001	112	6/1/2001	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2002	128	5/22/2002	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2003	126	5/27/2003	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2004	140	5/26/2004	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2005	131	5/31/2005	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2005	103	5/31/2005	FWS	Aerial	38.07861119	-121.965859	North Bay
Wheeler Island	2006	139	5/22/2006	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2006	203	5/31/2006	FWS	Aerial	38.07861119	-121.965859	North Bay
Wheeler Island	2007	110	5/30/2007	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2008	61	5/29/2008	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2008	55	6/6/2008	FWS	Aerial	38.07861119	-121.965859	North Bay
Wheeler Island	2009	76	5/20/2009	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2009	94	5/29/2009	FWS	Aerial	38.07861119	-121.965859	North Bay
Wheeler Island	2010	78	5/25/2010	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2010	103	6/2/2010	FWS	Aerial	38.07861119	-121.965859	North Bay
Wheeler Island	2011	80	5/25/2011	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2012	57	5/30/2012	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2013	75	5/20/2013	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2014	82	5/22/2014	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2015	105	5/27/2015	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2016	93	5/31/2016	ACR	Boat	38.07861119	-121.965859	North Bay
Wheeler Island	2017	70	5/22/2017	ACR	Boat	38.07861119	-121.965859	North Bay