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7 May 2017

Dear Cabinet Secretary, Chief Executive & Secretary of State,

Complaint re. ADD use in Scotland - "deliberate & reckless disturbance" of cetaceans (European Protected Species); breach of Habitats Regulations 1994 and breach of Inner Hebrides & the Minches candidate Special Area of Conservation

Please note that earlier today the [Global Alliance Against Industrial Aquaculture](#) (GAAIA) filed a formal complaint with the EC against the Scottish and UK Governments for the "deliberate & reckless disturbance" of cetaceans ([European Protected Species](#)) via the use of Acoustic Deterrent Devices (ADDs) on salmon farms in Scotland - including the breach of [The Conservation \(Natural Habitats, &c.\) Regulations 1994 \(as amended in Scotland\)](#) and breach of [the Inner Hebrides and the Minches candidate Special Area of Conservation \(cSAC\) for harbour porpoise submitted to the European Commission in 2016](#).

Read GAAIA's complaint to the European Commission [online here](#)

Based upon new scientific research - "[Large-scale underwater noise pollution from Acoustic Deterrent Devices \(ADDs\) on the west coast of Scotland](#)" - presented earlier this week at the European Cetacean Society together with previously published scientific studies, GAAIA recommends that ADDs are banned immediately from use at all salmon farms in Scotland.



Monday 1 May 2017

Large-scale underwater noise pollution from Acoustic Deterrent Devices (ADDs) on the west coast of Scotland

Denise Risch³, Charlotte Rose Findlay^{1,2}, Hayden Ripple², Steven Benjamins³, Ben Wilson³, Frazer Coomber⁴

(1) Joint Nature Conservation Committee, Aberdeen, AB, United Kingdom.

(2) University of St Andrews; Scottish Association for Marine Science.

(3) Scottish Association for Marine Science.

(4) Hebridean Whale and Dolphin Trust.

Expansion of the aquaculture industry off Scotland has led to conflicts with marine predators such as seals, which predate species bred in aquaculture facilities and cause damage to equipment. To mitigate this, non-lethal management tools have been developed, the most popular of which are Acoustic Deterrent Devices (ADDs) or 'seal scarers'. ADDs broadcast loud, aversive sounds within the hearing range of the target species (i.e. seals). However their success in addressing the issue has been variable. In addition their unregulated use in Scotland could pose unintended ecological impacts to non-target species such as the harbour porpoise (*Phocoena phocoena*). This study aimed to address the gap in knowledge on the extent of ADD use in the Scottish aquaculture industry, and to quantify the scale of their acoustic presence in Scottish waters. Acoustic data collected during cetacean line-transect surveys carried out by the Hebridean Whale and Dolphin Trust (HWDT) were used to map the acoustic presence of ADDs across the west coast between 2006 and 2015. Results found a significant spatial and temporal increase in ADD presence across the west coast study regions (detections per unit effort; 2006 = 0.5%; 2015 = 15.3%). This study highlights the large-scale extent of noise from ADDs use at fish farms across Scotland and illustrates its gradual increase over the study period. The increasing ensonification of the Scottish coastline which includes multiple protected areas for marine mammals, due to these devices may pose a risk to both target and non-target species (e.g. odontocete cetaceans) that use these areas either seasonally or year round. This study is one of the first to highlight the large-scale extent of ADD noise pollution and its overlap with marine mammal habitat. This information is crucial in order to effectively address European legislation related to underwater noise and marine species protection.

Scottish Natural Heritage referred to this research [in an internal email in August 2016](#). Reporting to SNH colleagues, Dr. Caroline Carter of SNH said:

"The Sound of Mull and Loch Linnhe were completely ensonified, and that the ADD signal can be detected all the way across the Minch. There was preliminary analysis of how the levels dropped with distance (from two locations) - from Portree the signal could be detected out to 20km from source, in Lochmaddy the signal could be detected out to 30km. This is in keeping with literature which suggests the signal can travel up to 50km."

From: Caroline Carter

Sent: 26 August 2016 13:19

To: George Lees; Suzanne Henderson; Liam Wright; Jane Dodd; Fiona Manson; Karen Hall; Katie Gillham

Subject: ADD use on the west coast of Scotland

Hi All,

I was at a meeting yesterday at SAMS where the two MSc students working with HWDT acoustic data were to present their findings. The focus of the studies was to investigate ADD use throughout the HWDT survey area. The intention was to have both students presenting, but unfortunately one missed the bus – so didn't make it!

This may be of interest to us, so I've noted some key points below for info;

- [REDACTED] looked at data from 2011 – 2015. She initially checked the volunteer ADD signal presence/absence logs by re looking at the sound files in PAMGuard. She found that the volunteers were pretty successful in identifying an ADD signal in real time (ie when they were listening on survey) but [REDACTED] analysis extended the occurrence of ADD as she could pick out the quieter signals. (She wanted to check this – I think – so that the analysis can be stretched further into the past where volunteer logs exist – but the acoustic files don't).
- She found that over the years there had been a significant increase in ADD presence. An increase of 0.084 to 0.153 was identified (the metric used was a standardised figure, i.e. number of ADD identifications divided by the number of listening stations).
- She could identify three types of ADD in use (Airmar; Terecos and Ace-Aquatec) and that the increase over time was primarily due to more Airmar signals.
- Presence/absence of detectable ADD signal were mapped in 10km square blocks (this shows where a ADD signal can be identified, but not how many signals were there – nor the level of the signal(s)).
- The maps showed the extent that ADDs were detectable, in particular you could see that the Sound of Mull and Loch Linnhe were completely ensonified, and that the ADD signal can be detected all the way across the Minch.

- There was preliminary analysis of how the levels dropped with distance (from two locations) From Portree the signal could be detected out to 20km from source, in Lochmaddy the signal could be detected out to 30km. This is in keeping with literature which suggests the signal can travel up to 50km. The rate of decline is location specific but the majority of decay is in the first 5km.
- This project highlights presence/absence of signal, it does not give an indication of absolute level. The analysis was done on a relative dB scale rather than absolute (due to an absence of calibration info).
- This work shows how prevalent the ADD signal is in the area (in itself this does not tell us the effect on species of interest, it also does not show where the signal came from – just that it was present).
- They hope to turn this work into a publication (from a marine pollution angle) – I've asked if we can be kept in the loop on that, and in the meantime, I've asked if we could have copies of their thesis' (if we can, they need to go through the university process...)
- [REDACTED] hopes to continue work in this area – and look at determining absolute levels and then using the data to ground truth a propagation model, and there may be potential for working on this with [REDACTED] (provided funding can be found).
- Also there may be scope to look at the acoustic data in conjunction with concurrent HWDT sightings data which may highlight any fine scale disturbance effects – this is something that they would like to consider in addition.

I think this work is useful in that it is highlighting the increase over time and prevalence of the ADD signal on the west coast, but to be of more use it I think we would need absolute levels, and some comparative analysis with marine mammal data. There is clearly more that can be done, but this was only a three month project and I think [REDACTED] did a good job with the time she had.

Any questions on the above – please shout.

Best,
Caroline

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The above document was obtained by GAAIA via FOI on 25 April 2017 (read SNH's covering letter [online here](#)) - the FOI documents are available via:

- [Download SNH FOI 25 April 2017 document #1](#)
- [Download SNH FOI 25 April 2017 document #2](#)
- [Download SNH FOI 25 April 2017 document #3](#)
- [Download SNH FOI 25 April 2017 document #4](#)
- [Download SNH FOI 25 April 2017 document #5](#)
- [Download SNH FOI 25 April 2017 document #6](#)
- [Download SNH FOI 25 April 2017 document #7](#)

GAAIA maintains that, at a bare minimum, all salmon farms currently using ADDs must apply for a licence including detailed evidence that "there are no satisfactory alternatives" (e.g. anti-predator nets, closed containment on land or startle devices).

Data disclosed by SNH via an Excel spreadsheet ([Download SNH FOI 25 April 2017 document #6](#)) details companies and regions which use and do not use ADDs:

Region	Company	ADD
Shetland	Cooke	Don't use
Shetland	Hjatland	Don't use
South West	Hjatland	Don't use
Outer Hebrides	Scottish Salmon Co	Ace aquatec US3
South West	Scottish Salmon Co	Ace aquatec US3
West Scotland	Scottish Salmon Co	Airmar, OTAQ Sealfance, Ace aquatec US3
South West	Scottish Salmon Co	Airmar, Ace aquatec
South West	Marine Harvest	Mon aqua, Terecos
Outer Hebrides	Marine Harvest	Don't use
West Scotland	Marine Harvest	Terecos, Airmar, Mohn aqua
Orkney and the North Coast	Scottish Sea Farms	Airmar, Ace aquatec
Shetland	Scottish Sea Farms	Mohn AquaMAG, Ace aquatec US3
West Scotland	Scottish Sea Farms	Mohn aqua, Airmar
West Scotland	Loch Duart	Airmar, Mohnaqua, Ace aquatec
Shetland	Balta	Ace aquatec, Lofitech
South West	Dawnfresh	Mon Aqua

A Scottish Government report - "[Evaluating and Assessing the Relative Effectiveness of Acoustic Deterrent Devices and other Non-Lethal Measures on Marine Mammals](#)" - published in 2014 stated that: "At least five different types of ADD are used in Scotland....About half of all fish farm sites appear to use ADDs, but there is no register of which sites are using what devices".

Table 2 Acoustic Characteristics of Acoustic Deterrent Devices Used at Scottish Aquaculture Sites

Manufacturer	Device	Source Level (dB)		Frequency (kHz)	Reference
		Scientific Literature	According to Manufacturer		
Airmar	dB Plus II	192 (RMS)	198 (RMS)	10 (tonal – with harmonics)	Lepper <i>et al.</i> (2004)
Lofitech	Universal Scarer	193 (RMS)	189 (Unknown)	14 (tonal – with harmonics)	Shapiro <i>et al.</i> (2009)
Ace Aquatec	Universal Scrammer 3	193 (RMS)	194 (Unknown)	10 – 65 (broadband)	Lepper <i>et al.</i> (2004)
Terecos	DSMS-4	179 (RMS)	None given	2 – 70 (broadband)	Lepper <i>et al.</i> (2004)
Ferranti-Thomson	4X	166 (Unknown)	200 (Unknown)	7 – 95 (broadband)	Terhune <i>et al.</i> (2002)

Data disclosed by SNH via Excel spreadsheets ([Download SNH FOI 25 April 2017 document #5](#) and [Download SNH FOI 25 April 2017 document #7](#)) effectively provides a register of salmon farms using and not using ADDs. The ADDs reported as being in use during 2015 and 2016 (and ongoing during 2017) included:

ACE Aquatec
 ACE Aquatec US 3
 Air Db Plus 11
 Airmar Db Plus 11
 AIRMAR / MAG - MOHN AQUA GROUP
 Airmar DB2
 Lofitech universal scrammer
 Mohn Aqua
 Mohn Aqua Airmar ADD 2000
 Mohn Aqua Airmar DB II
 Mohn Aqua MAG Seal Deterrent
 OTAQ SealFence
 OTAQ SF3
 Terecos DSMS 4

Of the 119 salmon farms which reported the use of ADDs during 2015*, 69 salmon farms used an [Airmar/Mon Aqua](#); 26 salmon farms used an [Ace Aquatech](#), 22 salmon farms used a [Terecos](#), one salmon farm used a [Lofitech](#) and one salmon farm used an [OTAQ](#).

* 1 October 2015 to 30 September 2016 is listed as the 'Application Period'; October 2015 is listed as a 'Creation Date' and 1 February 2016 to 31 January 2017 is listed as the 'Licence Period'.

Note that the [latest Scottish Government fish farm production survey 2015](#) - published in September 2016 - reported 254 salmon farm sites but only 139 were active (i.e. 115 reported zero production). In other words, it seems that the vast majority of active salmon farms use ADDs.

More specifically, the Excel spreadsheet ([document #5](#)) includes 86 salmon farms where ADDs were not used during 2015* - with various reasons listed why ADDs are not used:

1	FishFarmName	Registrati	SiteOwner	ADDNotUsedReason
2	Bay of Vady	FS1020	Cooke Aquaculture Scotl	Use not allowed by SNH due to cetaceans, an EPS license would be required if deployed.
3	Chalmers Hope	FS0993	Cooke Aquaculture Scotl	Use not allowed by SNH due to cetaceans an EPS license would be required.
4	Snarraness	FS0400	Scottish Sea Farms Ltd	They will be installed at a lter date so will confirm manufacturer then
5	HELLISAY	FS1261	Marine Harvest (Scotlan	Stored on site, for deployment when required
6	MacLean's Nose	FS0599	Marine Harvest (Scotlan	Stored at shore base ready for deployment if required
7	Shuna	FS0695	Scottish Sea Farms Ltd	SNH has not allowed use of ADDs
8	Bagh Dail Nan Ceann	FS0805	Marine Harvest (Scotlan	Site not yet in operation
9	Setter Voe	FS0316	Hjaltland Seafarms Ltd	Site not stocked
10	Kames Bay (west)	FS0271	Kames Fish Farming Ltd	Site near homes which would be disturbed by ADD
11	Groatay	FS1083	Marine Harvest (Scotlan	Site fallow at present
12	Maragay Mor	FS1304	The Scottish Salmon Cor	Site currently not stocked
13	SEAFORTH	FS1042	Marine Harvest (Scotlan	Site currently fallow
14	Bay of Ham	FS0122	Cooke Aquaculture Scotl	Seal-scarers not allowed by SNH due to cetacean movements. An EPS license would requ
15	Loch Ba	FS0429	Scottish Sea Farms Ltd	seals are a rare occurrence in the loch
16	Linga	FS1027	Hjaltland Seafarms Ltd	SAC for common seals, use requires permission from SNH
17	Bomlo	FS1076	Hjaltland Seafarms Ltd	SAC for common seals, use of ADDs requires permission from SNH
18	Bight of Foraness	FS0292	Hjaltland Seafarms Ltd	SAC for common seals, use of ADD requires permission from SNH
19	Swinning Voe 3	FS0903	Hjaltland Seafarms Ltd	SAC for common seals, requires permission of SNH to use
20	Poseidon	FS0408	Hjaltland Seafarms Ltd	Requires permission from SNH
21	Baigh Chlann Neill	FS0051	The Scottish Salmon Cor	Predator net used
22	Eilean Grianain	FS1176	Marine Harvest (Scotlan	Planning condition
23	Cole Deep	FS0489	Hjaltland Seafarms Ltd	not required or effective
24	Hogan	FS1053	Cooke Aquaculture Scotl	Not required or cost effective with current predation levles
25	Bow of Hascosay	FS0477	Cooke Aquaculture Scotl	Not required at prsent
26	Djubawick	FS0656	Cooke Aquaculture Scotl	Not required at present
27	Stead of Aithness	FS0637	Cooke Aquaculture Scotl	Not required at present due to low predation levels
28	Flaeshins	FS1275	Cooke Aquaculture Scotl	Not required at present and not allowed by Whole foods accreditation scheme
29	Belmont	FS0472	Cooke Aquaculture Scotl	Not required at present and not allowed by accreditation scheme whole foods
30	Carness Bay	FS0390	Cooke Aquaculture Scotl	Not required at present along with the requirement to apply and hold an EPS license due to cetacean movements
31	Bastaness	FS1279	Cooke Aquaculture Scotl	Not required at present
32	Copister	FS1043	Cooke Aquaculture Scotl	Not required at present
33	Vatsetter	FS/0407	Cooke Aquaculture Scotl	Not required at present
34	Bastavoe South	FS0074	Cooke Aquaculture Scotl	Not required
35	Sandwick	FS0710	Thompson Bros Salmon	Not required
36	Kirkabister	FS0802	Thompson Bros Salmon	Not required
37	East Vope Laxfirth	FS0333	Hjaltland Seafarms Ltd	not required
38	Gletness	FS1099	Hjaltland Seafarms Ltd	not required
39	Taing of Railbrough	FS0501	Hjaltland Seafarms Ltd	not required
40	Corlarach	FS1287	Hjaltland Seafarms Ltd	not required
41	Gob na Hoe	FS1175	Hjaltland Seafarms Ltd	not required
42	Leinish	FS0800	Hjaltland Seafarms Ltd	not required
43	Bay of Cleat North	FS1080	Cooke Aquaculture Scotl	Not permitted by accreditation scheme (Label Rouge and Soil Association)
44	Bloody Bay	FS0964	Scottish Sea Farms Ltd	not permitted
45	Muck	FS1286	Marine Harvest (Scotlan	Not permitted
46	Cloudin	FS0088	Cooke Aquaculture Scotl	Not cost effective at present.
47	Noust Geo	FS0823	Scottish Sea Farms Orkni	Not allowed by SNH/Planning
48	Bring Head	FS1023	Scottish Sea Farms Orkni	Not allowed by SNH/planning

49	Toyness	FS1024	Scottish Sea Farms Orkn	Not allowed by SNH/Planning
50	Wyre	FS1294	Scottish Sea Farms Orkn	Not allowed by SNH/Planning
51	Pegal Bay	FS0031	Cooke Aquaculture Scotl	Not allowed by SNH due to Cetaceans. An EPS license would be required.
52	South Cava	FS1198	Cooke Aquaculture Scotl	Not allowed by SNH due to cetaceans. An EPS license would be required .
53	Quanterness	FS/0908	Cooke Aquaculture Scotl	Not allowed by SNH due to cetaceans. An EPC license would be required.
54	Kirknoust	FS0645	Cooke Aquaculture Scotl	Not allowed by SNH due to cetaceans, EPS license required for use.
55	Lyrava Bay	FS0054	Cooke Aquaculture Scotl	Not allowed by SNH due to cetaceans & EPS license would be required to use.
56	West Fara	FS/1017	Cooke Aquaculture Scotl	Not allowed by SNH due to cetacaens. EMS license required if deployed
57	Ouseness	FS1209	Cooke Aquaculture Scotl	Not allowed by Label Rouge and Soil association
58	Vestness	FS/1210	Cooke Aquaculture Scotl	Not allowed by accreditation schemes Label Rouge and Soil association.
59	Turness	FS0451	Cooke Aquaculture Scotl	Not allowed by accreditation scheme, whole foods.
60	Vee Taing	FS/1057	Cooke Aquaculture Scotl	Not allowed by accreditation scheme Whole Foods. Not cost effective at current predation levels.
61	Burkwell	FS0960	Cooke Aquaculture Scotl	Not allowed by accreditation scheme Whole Foods.
62	Mula	FS/0896	Cooke Aquaculture Scotl	Not allowed by accreditation scheme whole foods.
63	Winna Ness	FS0871	Cooke Aquaculture Scotl	Not allowed by accreditation scheme Whole foods & not cost effective at current predation levels.
64	Baltsound Harbour	FS0449	Balta Island Seafare Ltd	no fish on site
65	Meil Bay	FS0597	Cooke Aquaculture Scotl	Insufficient mortality to warrant use. SNH restriction on use due to Cetaceans likely and EPS requirement.
66	Score Holm	FS0948	Hjaltland Seafarms Ltd	inefficient
67	Hamnavoe	FS1144	Hjaltland Seafarms Ltd	ineffective and requires permission from SNH
68	East of Papa Little	FS1278	Hjaltland Seafarms Ltd	ineffective
69	Goe of Valladale	FS1115	Hjaltland Seafarms Ltd	ineffective
70	Hamar Sound	FS1114	Hjaltland Seafarms Ltd	ineffective
71	Langa Isle (East)	FS0433	Hjaltland Seafarms Ltd	ineffective
72	North Havra	FS0674	Hjaltland Seafarms Ltd	ineffective
73	North Papa	FS0515	Hjaltland Seafarms Ltd	ineffective
74	North Voe	FS0946	Hjaltland Seafarms Ltd	ineffective
75	Olna South	FS0764	Hjaltland Seafarms Ltd	ineffective
76	Spoose Holm	FS0785	Hjaltland Seafarms Ltd	ineffective
77	West of Burwick	FS0937	Hjaltland Seafarms Ltd	ineffective
78	Etive 3 (Port na Min	FS1101	Dawnfresh Farming Ltd	Funding required for site development
79	Etive 4	FS1112	Dawnfresh Farming Ltd	Funding required for site development
80	Inverawe (East) Etiv	FS1067	Dawnfresh Farming Ltd	Funding for the development of the site
81	Uyea Isle	FS0382	Cooke Aquaculture Scotl	Due to accreditation scheme
82	Colonsay	FS1296	Marine Harvest (Scotlan	Condition of planning
83	Caolas A Deas	FS1291	Marine Harvest (Scotlan	Available to be deployed if required
84	LOCHALSH	FS0016	Marine Harvest (Scotlan	Available if required
85	Marulaig Bay	FS0865	Marine Harvest (Scotlan	available for deployment if required
86	SOAY	FS0646	Marine Harvest (Scotlan	Available for deployment if deemed necessary
87	CAIRIDH	FS0252	Marine Harvest (Scotlan	ADD's were used but were moved to neighbouring site to double up on resources there -

Reasons listed why ADDs were not used included:

- "The use of ADDs has been refused by SNH due to cetacean movements in Scapa Flow. An EPS license is required."
- "SNH have prohibited the use of ADDs in Rousay sound due to cetaceans. Prior to use an EPS license is required."
- "Not allowed by Wholefoods accreditation scheme for which this site is part of."
- "Not allowed by SNH or planning authority due to perceived potential impact on Cetaceans."

[Download SNH FOI 25 April 2017 document #5 ADDs NOT used](#)

* 1 October 2015 to 30 September 2016 is listed as the 'Application Period'; October 2015 is listed as a 'Creation Date' and 1 February 2016 to 31 January 2017 is listed as the 'Licence Period'.

However, there were 119 salmon farms where ADDs were used and 103 salmon farms where ADDs were "always on":

1	FishFarmName	Registr	SiteOwner	SiteStatus	ADDUsed	ADDAlwaysOn	ADDCount	ADDModel	ADDFrequ	ADDOutp
2	Aird	FS0594	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db 11 plus	6.50	198
3	Ardcastle	FS0818	The Scottish Salmon Company	Existing	TRUE	TRUE	2	ACE AQUATEC - US3	20.00	195
4	Ardgadden	FS0851	The Scottish Salmon Company	Existing	TRUE	TRUE	2	ACE AQUATEC - US3	20.00	195
5	Ardyne	FS0559	The Scottish Salmon Company	Existing	TRUE	TRUE	8	Ace Aquatech - US3	20.00	194
6	Badcall Bay	FS0067	Northern Salmon Management	Existing	TRUE	TRUE	18	Airmar Db Plus 11	60.00	180
7	Bight of Bellister, Dury Voe	FS1121	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	10	Ace Aquatec US3	12.00	195 to 197
8	Calbha	FS0068	Northern Salmon Management	Existing	TRUE	TRUE	14	Airmar Db Plus 11	60.00	180
9	CAMAS GLAS	FS0413	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	8	Airmar	10.00	198
10	CREAG AN T SAGAIRT	FS0605	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	6	Terecos DSMS4	9.30	135-178
11	Druimyeon Bay	FS0336	The Scottish Salmon Company	Existing	TRUE	TRUE	4	ACE AQUATEC - US3	20.00	195 dB re
12	Drumbeg (Loch Dhrombaig)	FS0487	Northern Salmon Management	Existing	TRUE	TRUE	6	Airmar Db Plus 11	6.00	180
13	DUICH	FS0248	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	8	Terecos DSMS4	9.30	135-178
14	Dunstaffnage	FS0299	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	9	Mohn Aqua Airmar DB11	10	197
15	Dury Voe	FS0033	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12	Ace Aquatec US3	12.00	195 to 197
16	East Tarbert Bay	FS1010	The Scottish Salmon Company	Existing	TRUE	TRUE	2	ACE AQUATEC - US3	20.00	195
17	Etive 6	FS1288	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	10	Mohn Aqua	10.00	192 dB re
18	Eughlam	FS1233	The Scottish Salmon Company	Existing	TRUE	TRUE	15	ACE AQUATEC US3	20.00	195
19	Fada	FS0858	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12	Mohn Aqua Airmar DBII	10	197
20	Foreholm	FS0936	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	10	Mohn aqua MAG	10.00	198
21	Furnace	FS0567	The Scottish Salmon Company	Existing	TRUE	TRUE	2	ACE AQUATEC - US3	20.00	195
22	Geasgill	FS0839	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar dB Plus 11	6.50	198
23	Glenan Bay	FS0590	The Scottish Salmon Company	Existing	TRUE	TRUE	3	ACE AQUATEC US3	20.00	195
24	Gob a Bharra	FS0683	The Scottish Salmon Company	Existing	TRUE	TRUE	3	ACE AQUATEC US3	20.00	195
25	Gometra	FS1267	The Scottish Salmon Company	Existing	TRUE	TRUE	15	ACE AQUATEC US3	20.00	195
26	Gousam	FS0998	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar dB Plus 11	6.50	198
27	Gravir	FS0242	The Scottish Salmon Company	Existing	TRUE	TRUE	3	Airmar dB Plus 11	6.50	198
28	Greanamul	FS1282	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db 11 plus	6.50	198
29	GRESHORNISH	FS0015	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	12	Terecos DSMS4	9.30	135-178
30	Grey Horse Channel	FS1122	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	14	Mon Aqua	10.00	198
31	Holms Geo	FS0749	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12	Mohn aqua	10.00	198
32	Inch Kenneth	FS0593	The Scottish Salmon Company	Existing	TRUE	TRUE	3	Airmar dB Plus 11	6.50	198
33	INVASION BAY	FS0212	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	1	Terecos DSMS4 and Air	9.30	135-178
34	ISLE EWE	FS1084	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	8	Mon Aqua	10.00	198
35	Kempie Bay	FS0359	Scottish Sea Farms Orkney and	Existing	TRUE	TRUE	4	Airmar dB 11	10.30	192
36	Kenmore	FS0050	The Scottish Salmon Company	Existing	TRUE	TRUE	2	Airmar db11 plus	6.50	198
37	Kerrera B	FS0663	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	13	Mohn Aqua AirmarDB11	10	197
38	KINGAIRLOCH	FS0241	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	1	Terecos DSMS4	9.30	135-178
39	Kishorn A (South)	FS0709	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12	Airmar DBII	10	197
40	Kishorn B (North)	FS0804	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	16	Mohn Aqua Airmar DBII	10	197
41	Kishorn West	FS1274	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12	Mkohn Aqua Airmar DBIII	10	197
42	Kyles Vuia	FS0927	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar dB Plus 11	6.50	198
43	Lamlash Bay	FS0423	The Scottish Salmon Company	Existing	TRUE	TRUE	2	Ace Aquatec US3	20.00	195
44	LEVEN	FS0244	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	2	Terecos DSMS4	9.30	135-178
45	LINNHE	FS0240	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	3	Terecos DSMS4	9.30	135-178
46	Lippie Geo	FS0850	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	10	Mohn Aqua MAG	10.00	198
47	Lismore North	FS0745	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	10	Mohn Aqua Airmar DB Pl	10	197
48	Lismore West	FS0914	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	10	Mohn Aqua Airmar DB11	10	197
49	Loch A Chairn Bhain	FS0621	Northern Salmon Management	Existing	TRUE	TRUE	14	Airmar Db Plus 11	60.00	180
50	Loch Carnan	FS1280	Loch Duart Ltd	Existing	TRUE	TRUE	18	Airmar	10.00	198
51	Loch Creran (B)	FS0426	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	14	Mohn Aqua Airmar DB II	10	197
52	Loch Laxford	FS0065	Northern Salmon Management	Existing	TRUE	TRUE	18	Airmar Db Plus 11	60.00	180
53	Loch Spelve (A)	FS0634	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	10	Mohn Aqua airmar DB11	10	197
54	Loch Spelve (B)	FS0253	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	8	Mohn Aqua Airmar	10	197
55	Lochmaddy	FS0853	Loch Duart Ltd	Existing	TRUE	TRUE	16	Airmar	10.00	198 range
56	Loura Voe	FS0699	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	20	Mohn Aqua MAG	10.00	198
57	MAOL BAN	FS0519	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	8	Terecos DSMS4	9.30	135-178
58	Meal Mhor	FS0091	The Scottish Salmon Company	Existing	TRUE	TRUE	2	ACE AQUATEC US3	20.00	195
59	Nevis A	FS0430	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12	Mohn Aqua airmar DB II	10	197
60	Nevis B	FS0616	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12	Mohn Aqua Airmar DBII	10	197
61	Nevis C (Ardintigh)	FS0546	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	9	Mohn Aqua Airmar DBII	10	197
62	Oldany	FS0933	Northern Salmon Management	Existing	TRUE	TRUE	10	Airmar Db Plus 11	60.00	180
63	Ornish	FS0531	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	2	Terecos DSMS4	9.30	135-178
64	Outer Eport	FS1254	The Scottish Salmon Company	Existing	TRUE	TRUE	2	Airmar db11 plus	6.50	198
65	Petersport	FS0340	The Scottish Salmon Company	Existing	TRUE	TRUE	14	OTAQ SealFence	20.00	195
66	Plocrapol	FS1256	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db 11 plus	6.50	198
67	Polle Na Gille	FS0629	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	8	Terecos DSMS4	9.30	135-178
68	Port Na Cro	FS0859	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	4	Terecos DSMS4	9.30	135-178
69	Portree	FS0708	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Ace Aquatech US3	20.00	195

70	Puldrite	FS0813	Scottish Sea Farms Orkney and	Existing	TRUE	TRUE	10	Airmar dbII	10.30	192
71	Quarry Point	FS0698	The Scottish Salmon Company	Existing	TRUE	TRUE	2	ACE AQUATEC US3	20.00	195
72	Raineach	FS1263	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	2	Terecos DSMS4	9.30	135-178
73	Reibinish	FS1277	The Scottish Salmon Company	Existing	TRUE	TRUE	2	Airmar db11 plus	6.50	198
74	Rubha Stillaig	FS0894	The Scottish Salmon Company	Existing	TRUE	TRUE	2	ACE AQUATEC US 3	20.00	195
75	Scadabay	FS1293	The Scottish Salmon Company	Existing	TRUE	TRUE	2	Airmar db11 plus	6.50	198
76	SCONSER	FS0602	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	12	Ace Aquatet	0.00	0
77	Scotasay	FS0502	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	2	Terecos DSMS4	9.30	135-178
78	Sgeir Dughall	FS1262	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db 11 plus	6.50	198
79	Sgian Dubh	FS1281	The Scottish Salmon Company	Existing	TRUE	TRUE	8	Ace Aquatech - US3	20.00	194
80	Shapinsay	FS0860	Scottish Sea Farms Orkney and	Existing	TRUE	TRUE	8	Ace Aquatec US3	20.00	195
81	Sian Bay	FS0361	Scottish Sea Farms Orkney and	Existing	TRUE	TRUE	10	Airmar dBII	10.30	192
82	Slocka Ronas Voe	FS1018	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	14	Ace Aquatec US3	12.00	195 to 197
83	Sound of Harris	FS1260	Loch Duart Ltd	Existing	TRUE	TRUE	2	Mohnaqua	10.00	198 range
84	South Sound	FS0183	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	14	Mohn aqua MAG	10.00	198
85	Strome	FS0570	The Scottish Salmon Company	Existing	TRUE	TRUE	4	ACE AQUATEC US3	20.00	195
86	Strondoir Bay	FS1019	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar dB Plus 11	6.50	198
87	Strone	FS1056	The Scottish Salmon Company	Existing	TRUE	TRUE	8	Ace Aquatech - US3	20.00	194
88	STULAIGH	FS1259	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	16	Airmar	10.00	198
89	Tanera	FS0549	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	24	Mohn Aqua MAG seal det	10	197
90	Taranaish	FS0752	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db Plus 11	20.00	198
91	Tarbert South	FS0767	The Scottish Salmon Company	Existing	TRUE	TRUE	3	ACE AQUATEC US3	20.00	195
92	Teisti Geo	FS1093	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	14	Mohn Aqua MAG	10.00	198
93	TORRIDON	FS0234	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	4	Terecos DSMS4	9.30	135-178
94	Trenay	FS0796	The Scottish Salmon Company	Existing	TRUE	TRUE	2	Airmar db 11 plus	6.50	198
95	Trilleachan Mor	FS1118	The Scottish Salmon Company	Existing	TRUE	TRUE	3	Airmar dB Plus 11	6.50	198
96	Tuath	FS0617	The Scottish Salmon Company	Existing	TRUE	TRUE	3	Airmar dB Plus 11	6.50	198
97	Uiskevagh	FS1255	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db11 plus	6.50	198
98	Vacasy	FS1091	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db 11 Plus	20.00	198
99	Vidlin North	FS0608	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	20	Mohn aqua MAG	10.00	198
100	Vuia Beag	FS0411	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db 11 Plus	6.50	198
101	Vuia Mor	FS1103	The Scottish Salmon Company	Existing	TRUE	TRUE	4	Airmar db 11 plus	6.50	198
102	Walters (East Lismore)	FS0875	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	9	Mohn Aqua Airmar DB pl	10	197
103	Wester Ross Fisheries	FS0056	Northern Salmon Management	Existing	TRUE	TRUE	14	Airmaar Db Plus 11	10.00	198
104	Wester Ross Fisheries	FS0057	Northern Salmon Management	Existing	TRUE	TRUE	12	Airmaar Db Plus 11	1.00	198
105	Ardchattan Bay	FS0197	Dawnfresh Farming Ltd	Existing	TRUE	FALSE	6	Mohn Aqua	10.00	192 dB re
106	ARDINTOUL	FS0245	Marine Harvest (Scotland) Ltd	Existing	TRUE	FALSE	4	Terecos DSMS4	9.30	135-178
107	Ardnish	FS0249	Marine Harvest (Scotland) Ltd	Existing	TRUE	FALSE	1	Terecos DSMS4	9.30	135-178
108	Balta Island	FS0717	Balta Island Seafare Ltd	Existing	TRUE	FALSE	3	ace aquatec us3	10.20	195
109	Baltasound Pier	FS1102	Balta Island Seafare Ltd	Existing	TRUE	FALSE	1	Iofitech universal scramm	14.00	189
110	Fishnish (A)	FS0427	Scottish Sea Farms Ltd	Existing	TRUE	FALSE	8	Mohn Aqua airmar DB Plu	10	197
111	Fishnish (B)	FS0694	Scottish Sea Farms Ltd	Existing	TRUE	FALSE	6	Airmar DB Plus II	10	197
112	Gorsten	FS0237	Marine Harvest (Scotland) Ltd	Existing	TRUE	FALSE	2	Terecos DSMS4	9.30	135-178
113	Kames Bay (east)	FS0462	Kames Fish Farming Ltd	Existing	TRUE	FALSE	1	Terreco Ultrasonic Seals	0.00	0
114	North Shore	FS1033	Marine Harvest (Scotland) Ltd	Existing	TRUE	FALSE	1	Terecos DSMS4	9.30	135-178
115	Scallastle	FS0209	Scottish Sea Farms Ltd	Existing	TRUE	FALSE	6	Mohn Aqua MAG seal det	10	197
116	Shuna Castle	FS0465	Kames Fish Farming Ltd	Existing	TRUE	FALSE	1	Terreco Ultrasonic Seal	0.00	0
117	Shuna SW (Rubhan Trilleach)	FS1290	Kames Fish Farming Ltd	Existing	TRUE	FALSE	4	Terreco Ultrasonic Seals	0.00	0
118	Swarta Skerry	FS0814	Balta Island Seafare Ltd	Existing	TRUE	FALSE	1	ace aquatec scrammer	10.20	195
119	Tabhaigh	FS1297	Marine Harvest (Scotland) Ltd	New	TRUE		1	Terecos DSMS4		
120	Wester Ross Fisheries	FS0675	Northern Salmon Management	New	TRUE		8	Airmaar Db Plus 11		

[Download data on ADD's used for the licensing period 1 February 2016 to 31 January 2017 via [Download SNH FOI 25 April 2017 document #5 New version for ADDs only LIST of all sites using ADDs](#)]

Of the 135 salmon farms which reported the use of ADDs in 2016*, 67 salmon farms used an [Airmar/Mon Aqua](#); 33 salmon farms used a used a [Terecos](#); 32 salmon farms used an [Ace Aquatech](#) and 3 salmon farm used an [OTAQ](#).

* 1 February 2017 to 31 January 2018 is listed as a 'Licence Period' and 1 October 2016 to 30 September 2017 is listed as the 'Application Period'.

In total, there are 135 salmon farms listed as using ADDs and 70 not using ADDs (9 sites have no data available for ADD use). Of the 135 salmon farms using ADDs, 84 are listed as "ADD Always On" and 50 as not "ADD Always On" (one site has no data re. the question "ADD Always On").

Here's the 135 salmon farms listed as using ADDs (including 84 listed as "ADDs Always On") - read the full list via [Download SNH FOI 25 April 2017 document #7 ADDs used only:](#)

1	FishFarmName	Reg #	SiteOwner	ADDUsed	ADDCount	ADDModel	ADDFreq	ADDOutput	ADDAlwaysOn
2	Aird	FS0594	The Scottish Salmon Company	TRUE	2	ACE Aquatec US3	12	195 to 197	FALSE
3	Ardcastle	FS0818	The Scottish Salmon Company	TRUE	2	ACE AQUATEC US3	14	195 to 197	FALSE
4	Ardchattan Bay	FS0197	Dawnfresh Farming Ltd	TRUE	6	Mohn Aqua	10.00	192 dB re	FALSE
5	Ardgadden	FS0851	The Scottish Salmon Company	TRUE	2	ACE Aquatec US3	14	195 to 197	FALSE
6	ARDINTOUL	FS0245	Marine Harvest (Scotland) Ltd	TRUE	6	Terecos DSMS 4	9.3	135-178	TRUE
7	Ardnish	FS0249	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS 4	9.3	135-178	FALSE
8	Ardyne	FS0559	The Scottish Salmon Company	TRUE	2	ACE Aquatec US3	16	194 to 197	TRUE
9	Badcall Bay	FS0067	Northern Salmon Management Co	TRUE	18	Air Db Plus 11	60	180	TRUE
10	Bagh Dail Nan Ceann	FS0805	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS 4	9.3	135-178	TRUE
11	Bay of Cleat North	FS1080	Cooke Aquaculture Scotland	TRUE	10	Ace Aquatec	10-20KHz	195dbre1u	TRUE
12	Bight of Bellister, Du	FS1121	Scottish Sea Farms Ltd	TRUE	12	Ace Aquatec US3	12	195 to 197	TRUE
13	Burrastow	FS0666	Cooke Aquaculture Scotland	TRUE	6	Ace Aquatec	10-20KHz	195dbre1u	TRUE
14	CAIRIDH	FS0252	Marine Harvest (Scotland) Ltd	TRUE	8	Terecos DSMS 4	9.3	135-178	TRUE
15	Calbha	FS0068	Northern Salmon Management Co	TRUE	14	Airmar Db Plus 11	60	180	TRUE
16	CAMAS GLAS	FS0413	Marine Harvest (Scotland) Ltd	TRUE	20	Airmar	10	0	TRUE
17	Cloudin	FS0088	Cooke Aquaculture Scotland	TRUE	12	Ace Aquatec	10-20KHz	195dbre1u	FALSE
18	CREAG AN T SAGAIR	FS0605	Marine Harvest (Scotland) Ltd	TRUE	4	Terecos DSMS 4	9.3	135-178	TRUE
19	Druimyeon Bay	FS0336	The Scottish Salmon Company	TRUE	4	ACE Aquatec US3	14	195 to 197	FALSE
20	Drumbeg (Loch Dhro	FS0487	Northern Salmon Management Co	TRUE	6	Airmar Db Plus 11	6	180	TRUE
21	DUICH	FS0248	Marine Harvest (Scotland) Ltd	TRUE	8	Terecos DSMS 4	9.3	135-178	TRUE
22	Dunstaffnage	FS0299	Scottish Sea Farms Ltd	TRUE	9	Airmar DB2	10	197	TRUE
23	Dury Voe	FS0033	Scottish Sea Farms Ltd	TRUE	10	Mohn aqua MAG	10	198	TRUE
24	East Tarbert Bay	FS1010	The Scottish Salmon Company	TRUE	2	ACE Aquatec US3	14	195 to 197	FALSE
25	Eilean Coltair	FS0777	Kames Fish Farming Ltd	TRUE	1	Terecos DSMS 4	9.3	179	FALSE
26	Eilean Grianain	FS1176	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS4	9.3	135-178	TRUE
27	Etive 6	FS1288	Dawnfresh Farming Ltd	TRUE	10	Mohn Aqua	10.00	192 dB re	TRUE
28	Eughlam	FS1233	The Scottish Salmon Company	TRUE	15	ACE Aquatec US3	20	195 to 197	TRUE
29	Fada	FS0858	Scottish Sea Farms Ltd	TRUE	12	Mohn Aqua Airmar	10	197	TRUE
30	Fishnish (A)	FS0427	Scottish Sea Farms Ltd	TRUE	8	Mohn Aqua Airmar	10	197	TRUE
31	Fishnish (B)	FS0694	Scottish Sea Farms Ltd	TRUE	8	Mohn Aqua Airmar	10	197	TRUE
32	Fiunary	FS0696	Scottish Sea Farms Ltd	TRUE	8	Mohn Aqua MAG Se	10	197	FALSE
33	Foreholm	FS0936	Scottish Sea Farms Ltd	TRUE	10	Mohn aqua MAG	10	198	TRUE
34	Furnace	FS0567	The Scottish Salmon Company	TRUE	2	ACE Aquatec US 3	12	195 to 197	FALSE
35	Geasgill	FS0839	The Scottish Salmon Company	TRUE	12	OTAQ SF3	10	196	FALSE
36	Glenan Bay	FS0590	The Scottish Salmon Company	TRUE	3	Ace Aquatec US 3	12	195 to 197	FALSE
37	Gob a Bharra	FS0683	The Scottish Salmon Company	TRUE	2	Ace Aquatec US 3	12	195 to 197	FALSE
38	Gometra	FS1267	The Scottish Salmon Company	TRUE	15	ACE Aquatec US3	12	195 to 197	TRUE
39	Gorsten	FS0237	Marine Harvest (Scotland) Ltd	TRUE	12	Terecos DSMS 4	9.3	135-178	TRUE
40	Gousam	FS0998	The Scottish Salmon Company	TRUE	4	Airmar db Plus 11	6.5	195 to 198	FALSE
41	Gravir	FS0242	The Scottish Salmon Company	TRUE	3	Airmar dB Plus 11	6.5	195 to 198	FALSE
42	Greanamul	FS1282	The Scottish Salmon Company	TRUE	4	Airmar db 11 plus	6.5	195 to 198	FALSE
43	GRESHORNISH	FS0015	Marine Harvest (Scotland) Ltd	TRUE	12	Terecos DSMS 4	9.3	135-180	TRUE
44	Grey Horse Channel	FS1122	Marine Harvest (Scotland) Ltd	TRUE	7	Terecos DSMS 4	9.3	135-178	TRUE
45	Groatay	FS1083	Marine Harvest (Scotland) Ltd	TRUE	14	Terecos DSMS4	9.3	135-178	TRUE

46	HELLISAY	FS1261	Marine Harvest (Scotland) Ltd	TRUE	2	mon aqua airmar II	10	135-178	TRUE
47	Holms Geo	FS0749	Scottish Sea Farms Ltd	TRUE	12	Ace Aquatec US3	12	195-197	TRUE
48	Inch Kenneth	FS0593	The Scottish Salmon Company	TRUE	3	AIRmar bb PLUS 11	1.8 per ch	198	FALSE
49	INVASION BAY	FS0212	Marine Harvest (Scotland) Ltd	TRUE	3	Terecos DSMS 4	9.3	135-178	TRUE
50	ISLE EWE	FS1084	Marine Harvest (Scotland) Ltd	TRUE	12	MON AQUA AIRMAR	10	135-178	TRUE
51	Kames Bay (east)	FS0462	Kames Fish Farming Ltd	TRUE	1	Terecos DSMS4	5	179	FALSE
52	Kames Bay (west)	FS0271	Kames Fish Farming Ltd	TRUE	1	DSMS4 Terecos	5	179	FALSE
53	Kempie Bay	FS0359	Scottish Sea Farms Orkney and E	TRUE	4	Airmar dbII	10.3	192	TRUE
54	Kenmore	FS0050	The Scottish Salmon Company	TRUE	2	ACE Aquatec US3	12	195 to 197	FALSE
55	Kerrera B	FS0663	Scottish Sea Farms Ltd	TRUE	13	Mohn Aqua Airmar	10	197dB	TRUE
56	KINGAIRLOCH	FS0241	Marine Harvest (Scotland) Ltd	TRUE	1	Terecos DSMS4	9.3	135-178	TRUE
57	Kishorn A (South)	FS0709	Scottish Sea Farms Ltd	TRUE	12	Mohn Aqua Airmar	10	197	TRUE
58	Kishorn B (North)	FS0804	Scottish Sea Farms Ltd	TRUE	16	Mohn Aqua Airmar	10	197	TRUE
59	Kishorn West	FS1274	Scottish Sea Farms Ltd	TRUE	14	Mohn Aqua Airmar	10	197	TRUE
60	Kyles Vuia	FS0927	The Scottish Salmon Company	TRUE	4	Airmar dB Plus 11	6.5	195 to 198	FALSE
61	Lamlash Bay	FS0423	The Scottish Salmon Company	TRUE	2	Ace Aquatec US3	12	195 to 197	FALSE
62	LEVEN	FS0244	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS 4	9.3	135-178	TRUE
63	LINNHE	FS0240	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS 4	9.3	135-178	TRUE
64	Lismore North	FS0745	Scottish Sea Farms Ltd	TRUE	4	Mohn Aqua Airmar	10	197	TRUE
65	Lismore West	FS0914	Scottish Sea Farms Ltd	TRUE	10	Mohn Aqua Airmar	10	197	TRUE
66	Loch A Chairn Bhain	FS0621	Northern Salmon Management C	TRUE	14	Airmar Db Plus 11	60	180	TRUE
67	Loch Carnan	FS1280	Loch Duart Ltd	TRUE	12	AIRMAR / MAG - MC	10	198	TRUE
68	Loch Creran (B)	FS0426	Scottish Sea Farms Ltd	TRUE	14	Mohn Aqua Airmar	10	197	TRUE
69	Loch Creran (D)	FS1047	Scottish Sea Farms Ltd	TRUE	14	Mohn Aqua Airmar	10	197	FALSE
70	Loch Laxford	FS0065	Northern Salmon Management C	TRUE	18	Airmar Db Plus 11	60	180	TRUE
71	Loch Spelve (A)	FS0634	Scottish Sea Farms Ltd	TRUE	10	Airmar DBII	10	197	TRUE
72	Loch Spelve (B)	FS0253	Scottish Sea Farms Ltd	TRUE	10	Mohn Aqua Airmar	10	197	TRUE
73	Lochmaddy	FS0853	Loch Duart Ltd	TRUE	20	AIRMAR / MAG - MC	10	198	TRUE
74	Loura Voe	FS0699	Scottish Sea Farms Ltd	TRUE	10	Mohn Aqua MAG	10	198	TRUE
75	MacLean's Nose	FS0599	Marine Harvest (Scotland) Ltd	TRUE	1	Terecos DSMS4	9.3	135-178	FALSE
76	MAOL BAN	FS0519	Marine Harvest (Scotland) Ltd	TRUE	8	Terecos DSMS 4	9.3	135-178	TRUE
77	Marulaig Bay	FS0865	Marine Harvest (Scotland) Ltd	TRUE	4	Terecos DSMS4	9.3	135-178	TRUE
78	Meall Mhor	FS0091	The Scottish Salmon Company	TRUE	2	ACE Aquatec US 3	12	195 to 197	FALSE
79	Mid Taing	FS0167	Cooke Aquaculture Scotland	TRUE	6	Ace Aquatec	10-20KHz	195dbre1	TRUE
80	Nevis A	FS0430	Scottish Sea Farms Ltd	TRUE	12	Mohn Aqua airmar	10	197	TRUE
81	Nevis B	FS0616	Scottish Sea Farms Ltd	TRUE	12	Mohn Aqua Airmar	10	197	TRUE
82	Nevis C (Ardintigh)	FS0546	Scottish Sea Farms Ltd	TRUE	12	Mohn Aqua Airmar	10	197	TRUE
83	North Moine	FS0356	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS 4	9.3	135-178	FALSE
84	North Shore	FS1033	Marine Harvest (Scotland) Ltd	TRUE	6	Terecos DSMS-4	9.3	135-178	TRUE
85	Oldany	FS0933	Northern Salmon Management C	TRUE	10	Airmar Db Plus 11	60	180	TRUE
86	Ornish	FS0531	Marine Harvest (Scotland) Ltd	TRUE	2	ACE AQUATEC	10	135 -180	TRUE
87	Ouseness	FS1209	Cooke Aquaculture Scotland	TRUE	10	Ace Aquatec	10-20KHz	195dbre1	TRUE
88	Outer Bay (Loch Dro	FS0671	Northern Salmon Management C	TRUE	6	Airmar Db Plus 11	60	180	TRUE
89	Outer Eport	FS1254	The Scottish Salmon Company	TRUE	2	Airmar db11 plus	6.5	195 to 198	FALSE
90	Petersport	FS0340	The Scottish Salmon Company	TRUE	14	OTAQ SealFence	20	195	FALSE
91	Plocrapol	FS1256	The Scottish Salmon Company	TRUE	4	Airmar db 11 plus	6.5	195 to 198	FALSE
92	Polle Na Gille	FS0629	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS 4	9.3	135-178	TRUE
93	Port Na Cro	FS0859	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS 4	9.3	135-178	TRUE
94	Portree	FS0708	The Scottish Salmon Company	TRUE	4	ACE Aquatec US3	12	195 to 197	FALSE
95	Puldrite	FS0813	Scottish Sea Farms Orkney and E	TRUE	10	Airmar dbII	10.3	192	TRUE
96	Quarry Point	FS0698	The Scottish Salmon Company	TRUE	2	ACE Aquatec US 3	12	195 to 197	FALSE
97	Raineach	FS1263	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS4	9.3	135-178	TRUE
98	Reibinish	FS1277	The Scottish Salmon Company	TRUE	2	Airmar db11 plus	6.5	195 to 198	FALSE
99	Rubha Stillaig	FS0894	The Scottish Salmon Company	TRUE	2	Ace Aquatec US 3	12	195 to 197	FALSE
100	Scadabay	FS1293	The Scottish Salmon Company	TRUE	2	Airmar db11 plus	6.5	195 to 198	FALSE
101	Scallastle	FS0209	Scottish Sea Farms Ltd	TRUE	8	Mohn Aqua Airmar	10	197dB	FALSE
102	SCONSER	FS0602	Marine Harvest (Scotland) Ltd	TRUE	12	Terecos DSMS 4	9.3	135-178	FALSE
103	Scotasay	FS0502	Marine Harvest (Scotland) Ltd	TRUE	2	Terecos DSMS-4	9.3	135-178	TRUE
104	SEAFORTH	FS1042	Marine Harvest (Scotland) Ltd	TRUE	2	TERECOS DSMS-4	9.3	135-178	TRUE
105	Sgeir Dughall	FS1262	The Scottish Salmon Company	TRUE	2	ACE Aquatec US3	12	195 to 197	FALSE
106	Sgian Dubh	FS1281	The Scottish Salmon Company	TRUE	2	ACE Aquatec US3	16	194 to 197	FALSE
107	Shapinsay	FS0860	Scottish Sea Farms Orkney and E	TRUE	8	Ace Aquatec US3	20	195	TRUE
108	Shuna Castle	FS0465	Kames Fish Farming Ltd	TRUE	1	Terecos DSMS4	5	179	FALSE
109	Shuna SW (Rubhan T	FS1290	Kames Fish Farming Ltd	TRUE	2	Terecos DSMS 4	9.3	135 -178	TRUE
110	Sian Bay	FS0361	Scottish Sea Farms Orkney and E	TRUE	10	Airmar dbII	10.3	192	TRUE
111	Slocka Ronas Voe	FS1018	Scottish Sea Farms Ltd	TRUE	14	Mohn aqua MAG	10	198	TRUE
112	Snarraness	FS0400	Scottish Sea Farms Ltd	TRUE	8	Ace Aquatec US3	12	195 to 197	TRUE

113	Sound of Harris	FS1260	Loch Duart Ltd	TRUE	14	AIRMAR / MAG - MC	10	198	TRUE
114	South Sound	FS0183	Scottish Sea Farms Ltd	TRUE	14	Mohn Aqua Mag	10	198	TRUE
115	Strome	FS0570	The Scottish Salmon Company	TRUE	4	ACE AQUATEC US3	12	195 to 197	FALSE
116	Strone	FS1056	The Scottish Salmon Company	TRUE	2	ACE Aquatec US3	16	194 to 197	FALSE
117	STULAIGH	FS1259	Marine Harvest (Scotland) Ltd	TRUE	16	Airmar	10	135-178	TRUE
118	Tabhaigh	FS1297	Marine Harvest (Scotland) Ltd	TRUE	4	Terecos DSMS-4	9.3	135-178	TRUE
119	Tanera	FS0549	Scottish Sea Farms Ltd	TRUE	24	Mohn Aqua MAG Se	10	197	TRUE
120	Taranaish	FS0752	The Scottish Salmon Company	TRUE	4	Airmar dB Plus 11	12	195 to 198	TRUE
121	Tarbert South	FS0767	The Scottish Salmon Company	TRUE	2	ACE Aquatec	12	195 to 197	FALSE
122	Teisti Geo	FS1093	Scottish Sea Farms Ltd	TRUE	14	Mohn aqua MAG	10	198	TRUE
123	TORRIDON	FS0234	Marine Harvest (Scotland) Ltd	TRUE	10	Terecos DSMS4	9.3	135-178	TRUE
124	Trenay	FS0796	The Scottish Salmon Company	TRUE	2	Airmar db 11 plus	6.5	198	FALSE
125	Trilleachan Mor	FS1118	The Scottish Salmon Company	TRUE	3	Airmar dB Plus 11	6.5	194 to 198	FALSE
126	Tuath	FS0617	The Scottish Salmon Company	TRUE	12	OTAQ SF3	10	196	FALSE
127	Uiskevagh	FS1255	The Scottish Salmon Company	TRUE	4	Airmar db11 plus	6.5	198	FALSE
128	Vacasay	FS1091	The Scottish Salmon Company	TRUE	4	Airmar dB Plus 11	12	195 to 198	FALSE
129	Vidlin North	FS0608	Scottish Sea Farms Ltd	TRUE	20	Mohn Aqua MAG	10	198	TRUE
130	Vuia Beag	FS0411	The Scottish Salmon Company	TRUE	2	Airmar dB Plus 11	6.5	195 to 198	FALSE
131	Vuia Mor	FS1103	The Scottish Salmon Company	TRUE	4	Airmar dB Plus 11	6.5	195 to 198	FALSE
132	Walters (East Lismor	FS0875	Scottish Sea Farms Ltd	TRUE	11	Mohn Aqua Airmar	10	197	TRUE
133	Wester Ross Fisherie	FS0057	Northern Salmon Management	TRUE	12	Airmaar Db Plus 11	1	198	TRUE
134	Wester Ross Fisherie	FS0517	Northern Salmon Management	TRUE	8	Airmaar Db Plus 11	10	198	TRUE
135	Wester Ross Fisherie	FS0675	Northern Salmon Management	TRUE	8	Airmaar Db Plus 11			
136	Wester Ross Fisherie	FS0056	Northern Salmon Management	TRUE	14	Airmar Db Plus 11	10	198	TRUE

A [document circulated by the Sea Mammal Research Unit of St. Andrews University](#) to the Salmon Aquaculture & Seals Working Group in April 2016 included:

Had hoped to help and follow the commercialisation of a new acoustic deterrent system: this has become mired in problems concerning finance, engineering and patents, but is ongoing.

We have engaged with WWF and SNH about possible curtailment of ADD use, which might result in increased levels of depredation, damage and shooting.

GAAIA is calling on MSPs to support a motion calling for the immediate ban on ADDs on salmon farms to protect cetaceans. In particular:

Maureen Watt MSP is [species champion for the harbour porpoise](#)
Kenneth Gibson MSP is [species champion for the blue whale](#)
Peter Chapman MSP is [species champion for the bottlenose dolphin](#)
James Dornan MSP is [species champion for the common dolphin](#)
Richard Leonard MSP is [species champion for the humpback whale](#)
Richard Lochhead MSP is [species champion for the minke whale](#)
Tavish Scott MSP is [species champion for the orca](#)
Neil Bibby MSP is [species champion for the Risso's dolphin](#)
Kevin Stewart MSP is [species champion for the Sei whale](#)
Christina McKelvie is [species champion for the white beaked dolphin](#)

It is abundantly clear that this new scientific research blows the use of ADDs on salmon farms out of the water. Please hear the clarion calls of cetaceans all around the Scottish coast

- stop noise pollution from salmon farms now. The use of ADDs is clearly 'deliberate' and 'reckless' and therefore constitutes a breach of the law.

The Scottish Government was warned on this issue back in 2013 when a report to Marine Scotland - "[Investigations on Seal Depredation at Scottish Fish Farms](#)" - stated:

Under EU and domestic legislation, the deliberate or reckless disturbance of cetaceans (and other European Protected Species) in Scotland is prohibited. At present Scottish Natural Heritage (SNH), as the statutory nature conservation body, is consulted on fish farm site licence applications in Scotland. SNH policy towards the use of ADDs used at new sites is currently based on whether or not the site is considered important for cetaceans. However, it is still unclear whether or not the use of ADDs more widely might be construed as the deliberate or reckless disturbance of cetaceans, and the uncertainty seems unlikely to be clarified until the current interpretation is challenged in court. This means that it is conceivable that the existing permitted use of ADDs in Scotland could be challenged, perhaps leading to more widespread restrictions on their use. Furthermore, under recently agreed Global Standards for Salmon Aquaculture, initiated by the WWF and agreed by over 500 international stakeholders, ADDs are intended to be phased out in salmon aquaculture within three years of the publication of the Salmon Aquaculture Dialogue¹³ (SAD) by those companies that sign up to the Standards. The SAD proscription of ADDs appears to be based on the assumption that all such deterrents are inimical to cetacean conservation. An exception to this may be granted where new technologies can be shown to present less risk to non-target populations.

Salmon farmers are clearly caught between a rock and a hard place, between the devil and the deep blue sea. On the one hand they can continue to shoot seals (and lose [£200 million in US exports](#)) and on the other they can continue to use ADDs (in breach of the law). The industry must bite the bullet and immediately install anti-predator nets and move salmon farms out of the ocean.

GAAIA will be filing further FOI requests on this vital issue over the coming week.

For further information please read:

[GAAIA's complaint to the European Commission](#) (7 May 2017)

[Media Backgrounder: ADDs & Salmon Farms](#) (May 2017)

['FOI Backgrounder: ADDs & Salmon Farms' \(May 2017\)](#)

[Sunday Herald: "Health of whales, dolphins and porpoises put at risk by underwater alarms"](#)

[Press Release: "Cetaceans Sound Alarm On Salmon Farms - new research sparks EC complaint & call to ban Acoustic Deterrent Devices"](#)

Yours sincerely,

Don Staniford

Director, [Global Alliance Against Industrial Aquaculture](#)