



**Legend**

- Wind Farm Project Boundary
- Transmission Asset Project
- Immediate Study Area
- Firth of Forth Round 3 Zone 2
- Regional Study Area
- Scottish Territorial Water Sites

**Sandeel Abundance (Marine Scotland, 2009)**

- 1 - 500
- 501 - 2000
- 2001 - 5000
- 5001 - 10000
- 10001 - 30000

**Noise Contours (Nedwell et al., 2012)**

<b>GM1 (alpha) scenario</b>	<b>GM1 (NNG) scenario</b>
dBht Levels	dBht Levels
<span style="color: green;">—</span> 75	<span style="color: magenta;">—</span> 75
<span style="color: green;">—</span> 90	<span style="color: magenta;">—</span> 90
<span style="color: green;">—</span> 130	<span style="color: magenta;">—</span> 130
<b>GM1 (bravo) scenario</b>	<b>GM1 (Inch Cape) scenario</b>
dBht Levels	dBht Levels
<span style="color: orange;">—</span> 75	<span style="color: blue;">—</span> 75
<span style="color: orange;">—</span> 90	<span style="color: blue;">—</span> 90
<span style="color: orange;">—</span> 130	<span style="color: blue;">—</span> 130

**Sandeel Spawning Ground (Ellis et al., 2010)**

- High Intensity
- Low Intensity

**Sandeel Spawning & Nursery Grounds (Ellis et al., 2010)**

- High Intensity
- Low Intensity

**Coordinate System**  
 UTM Zone 30 North (WGS84)  
 Projection: Transverse Mercator  
 Central Meridian: -3° East  
 Scale Factor: 0.9996  
 Latitude of Origin: 0° North  
 False Easting: 500000.0  
 False Northing: 0.0  
 Reference Spheroid: WGS84  
 Semi-major Axis: 6378137.0  
 Inverse Flattening: 298.2572236



Title:  
**Firth of Forth Offshore Wind Farm**



Figure / Drawing Title:  
**CUMULATIVE NOISE CONTOURS (SANDEEL)  
 FOR SEAGREEN PROJECT AND STW OWF SITES**

Figure/Drawing Number: **FIGURE 12.17**

UNLESS THE REVISION IS B OR HIGHER THE DRAWING IS NOT TO BE USED FOR DESIGN OR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CKD	APPR DEV	APPR ENG
B1	15 OCT 12	FOR FORMAL SUBMISSION	AZ	TR	PP	NC

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