

Rev B 1/29/17												
Magnet Flux Density in Gap from one Nd-Fe-B Magnet	1.22											
Type of Field (DC=2, AC=3)	2											
Avg Number of Magnets on Rim	100											

Item	Distance meters	Magnetic Flux Density						Comment	Reference	Page
		nanoTesla	milliGauss	microTesla	Gauss	milliTesla	Tesla			
Magnetic Field Emissions Into Seawater from OpenHydro Flooded Seawater Gap and overlapping magnetic fields. One Nd-Fe-B Magnet Flux Density is 1.22 Tesla.	10	1220000000	12200000	1220000	12200.000	1220.000	1.220000		<a href="https://www.researchgate.net/publication/271467625_Modeling_of_the_generator_for_OpenHydro's_tidal_energy_system">https://www.researchgate.net/publication/271467625_Modeling_of_the_generator_for_OpenHydro's_tidal_energy_system</a>  <a href="https://www.researchgate.net/publication/273912761_Design_and_Performance_Analysis_of_Double_Stator_Axial_Flux_P_M_Generator_for_Rim_Driven_Marine_Current_Turbines">https://www.researchgate.net/publication/273912761_Design_and_Performance_Analysis_of_Double_Stator_Axial_Flux_P_M_Generator_for_Rim_Driven_Marine_Current_Turbines</a>	2
	50	48800000	488000.0	48800.00	488.0000	48.80000	0.048800			
	100	12200000	122000	12200	122.000	12.200	0.012200			
	150	5422222	54222.22	5422.22	54.22	5.42	0.00542			
	200	3050000	30500	3050	30.50	3.05	0.00305			
	500	488000	4880	488	4.88	0.49	0.00049			
	1000	122000	1220	122	1.22	0.12	0.00012			
2500	19520	195.20	19.52	0.20	0.02	0.00002				
Magnetic Field Around Power Cable in Seawater	1.5	30	0.3	0.03	0.0003	0.00003	3E-08		<a href="http://fundyforce.ca/wp-content/uploads/2012/05/Appendix-I-Assessment-of-Potential-Ecosystem-Effects-from-Electromagnetic-Fields.pdf">http://fundyforce.ca/wp-content/uploads/2012/05/Appendix-I-Assessment-of-Potential-Ecosystem-Effects-from-Electromagnetic-Fields.pdf</a>	19
Postulated detection limits for sensitive marine species		3	0.03	0.003	0.00003	0.000003	3E-09		<a href="http://fundyforce.ca/wp-content/uploads/2012/05/Appendix-I-Assessment-of-Potential-Ecosystem-Effects-from-Electromagnetic-Fields.pdf">http://fundyforce.ca/wp-content/uploads/2012/05/Appendix-I-Assessment-of-Potential-Ecosystem-Effects-from-Electromagnetic-Fields.pdf</a>	25
Whale and dolphins		50	0.5	0.05	0.0005	0.00005	5E-08	Increased Strandings	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	11
Sea Urchins		10000	100	10	0.1	0.01	0.00001	delay in the mitotic cycle of early urchin embryos. increase greatly the incidence of exogastrulation, a mental abnormality	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	15
Rainbow Trout		5000	50	5	0.05	0.005	0.000005	increased oxygen uptake in embryos. Breathing process of embryos was more pronounced	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	16
Brown Trout		1300	13	1.3	0.013	0.0013	1.3E-06	slowed the embryonic development	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	16
Rainbow/Brown Trout		500	5	0.5	0.005	0.0005	5E-07	induced significantly strong orientation responses in embryos	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	16
Blue Mussels		5800	58	5.8	0.058	0.0058	5.8E-06	20% decrease in hydration and a 15% decrease in amine nitrogen values	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	17
Japanese Eels		192473	1925	192.473	1.92473	0.192473	0.000192	slowing of the heartbeat	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	17