

NOTICE TO MARINERS

Issue Date: 8th August, 2016

Western Link Project

Deep water cable installation

Mariners are advised that the third deep water installation campaign (C3) of the Western Link HVDC cable has been completed. This cable campaign is in the North Channel of the Irish Sea between Scotland and Northern Ireland for about 117km from (kilometre point (Kp) 60.5 to 177 from the northern landfall at Hunterston).

The cable lay vessel **Giulio Verne** (IMO 8302014; Call Sign IBPU) is now planned to recover the 28km Wet stored cable, free laid in December 2015 to the south of the Isle of Man (from 53°50.173'N 004°02.367'W to 53°53.514'N 004°27.040'W). This cable will be joined to the cable that is already installed on the seabed. The joined cable will then be installed on the seabed for the remaining stretch of Campaign 1. This work is expected to be completed by the end of August to early Sept 2016. When finished, this will complete the Campaign 1 (C1) cable installation up to RKp 153km from the southern landfall (also termed RKp 153, which is 232km from the northern landfall of the cable (i.e. Kp 232)).

The laying operations work will be carried out by **Prysmian** using **Giulio Verne** (IMO 8302014; Call Sign IBPU) cable lay vessel and the burial works is being completed with a plough by **Deep Ocean 1 UK** using **Go Pegasus** (IMO 9495210, Call Sign V7CE4) support vessel following the cable laying vessel at a short distance.

During such times the vessels will have restricted ability to manoeuvre and other vessels are requested to pass at a safe speed and distance.

The vessels will monitor VHF Channel 16 at all times.



Cable Laying vessel - Giulio Verne



Plough Support vessel - Go Pegasus

Project Description

The Western Link Project consists of installing two 600 kV DC submarine cables in the Irish Sea from Ardneil (Scotland) to Wirral (England) for a total route length of about 387 km (Figure 3). The cables will usually be laid as two separate cables approximately 30 metres apart. The third campaign (C3) of about 117km from KP177 in Northern Irish Waters to KP60.5 in Scottish waters has been completed.

The cable lay vessel Giulio Verne is now planned to recover the 28km Wet stored cable, free laid in December 2015 and after the jointing operation with the already installed cable, to complete the Campaign 1 (C1) cable installation up to RKp 153 (KP 232) by using a laying and burial “in tandem” technique. Operations are expected to be completed by the end of August/beginning of September 2016.

The following installation campaign, fourth Campaign (C6), will then conducted parallel to the just completed third Campaign (C3) for about 119km from KP 56 to 175 starting from North going South. Campaign 6 is expected to start in the second half of September and this operation will be notified via a dedicated NtM.

Cable Laying & Burial

For the completion of Campaign 1, the Western Link HVDC cable will be installed by using a laying and burial “in tandem” technique, in which the Cable Laying vessel *Giulio Verne* will surface lay the cable on the seabed, while a plough towed by its support vessel *Go Pegasus* will bury them at a short distance behind (approximately 500m), see Figure 1.

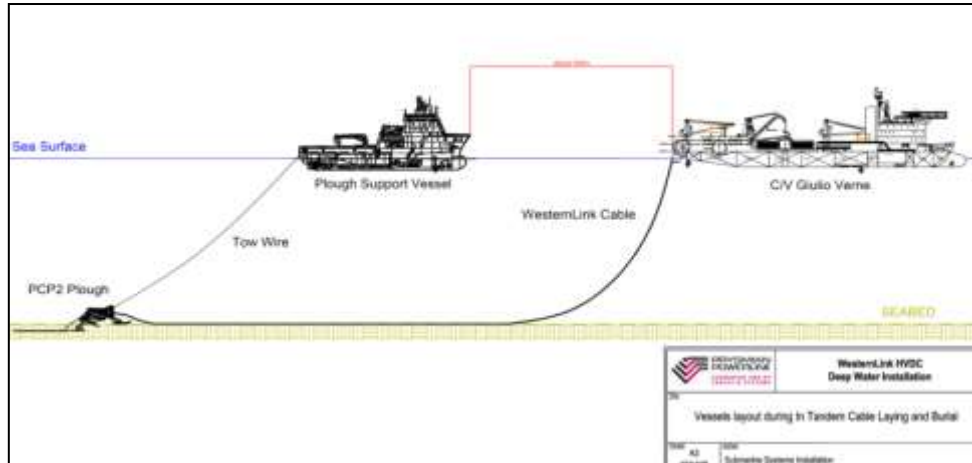


Figure 1 – Laying and Burial “In Tandem” arrangement

Vessels are requested to pass at a safe speed and distance and fishing vessels are advised to remain a safe distance (approximately 1.5 nautical miles) from the free laid sections and the crossing sections. Deployed Guard Vessels will monitor the exposed areas and advise of safe distances locally.

Post Lay Survey

At the completion of Campaign 1 a Post-lay survey will be carried out along the 28km cable route. The survey will consist of a visual and instrumental ROV survey of the installed Western Link cable.

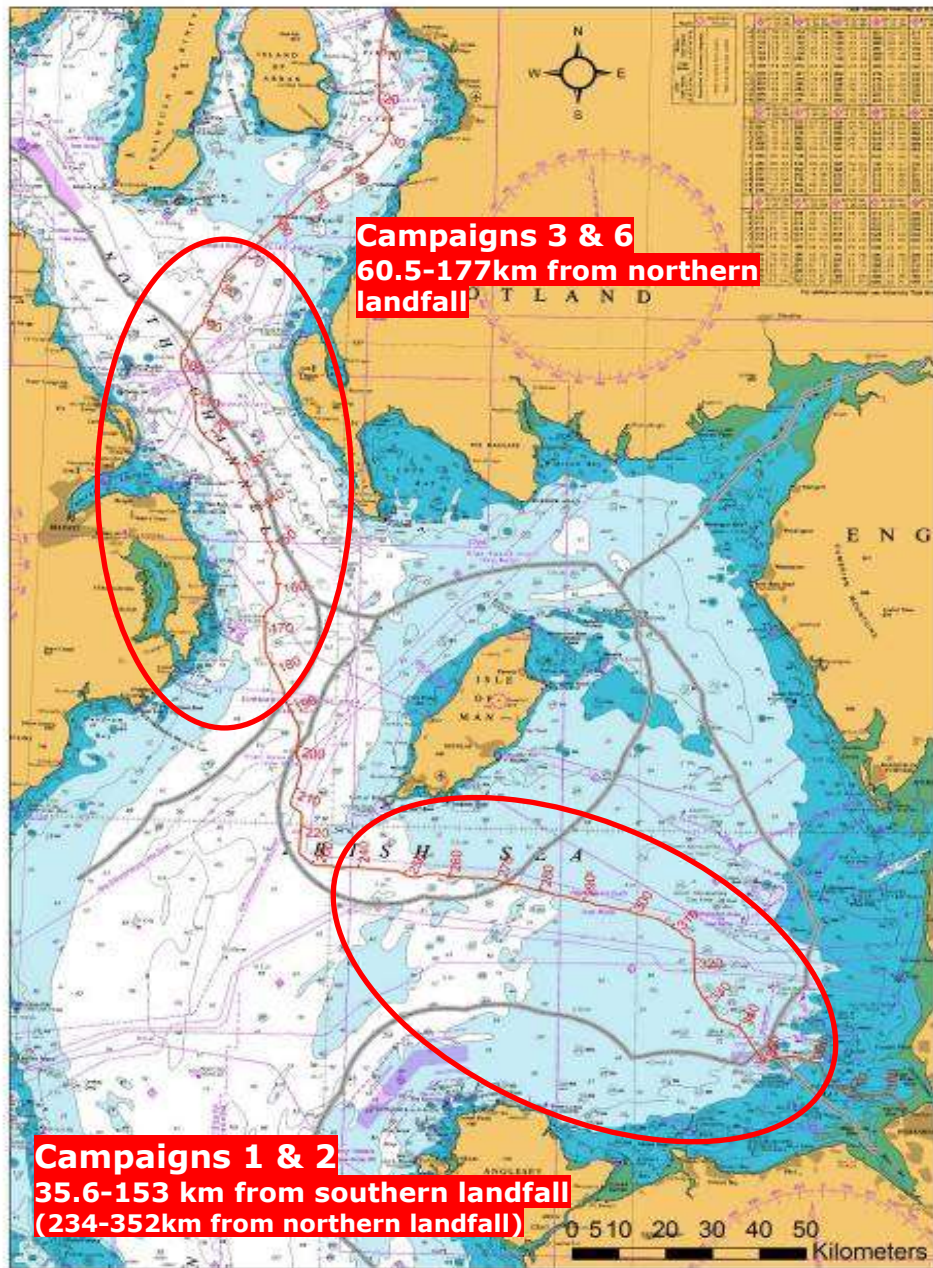


Figure 2 – Western Link cable route - Deep Water installation sections & campaigns

APPENDIX 1

Table 1 –Campaign 3&6 installation section route. Shaded cells in the table indicate lengths of cable that will be free laid and subsequently buried by jetting.

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_39	360198	6126500	55° 15.907'N	005° 12.012'W	47	5,460	58,409	328,752	220,4	18,0
AC_40	359783	6126262	55° 15.772'N	005° 12.396'W	47	0,478	58,887	328,273	238,4	16,8
LANIS_3_(2)_Cable_IS	359042	6126091	55° 15.667'N	005° 13.090'W	47	0,760	59,647	327,513	255,2	0,0
AC_41	358744	6126022	55° 15.625'N	005° 13.370'W	47	0,307	59,954	327,206	255,2	15,9
AC_42	358459	6125865	55° 15.535'N	005° 13.634'W	47	0,325	60,279	326,881	239,3	13,8
AC_43	358220	6125645	55° 15.412'N	005° 13.852'W	47	0,325	60,604	326,556	225,4	15,9
AC_44	357243	6124042	55° 14.532'N	005° 14.726'W	47	1,878	62,482	324,678	209,5	13,3
AC_45	352146	6118898	55° 11.670'N	005° 19.370'W	56	7,243	69,725	317,436	222,9	2,9
AC_46	349623	6116607	55° 10.391'N	005° 21.673'W	61	3,408	73,133	314,028	225,8	5,8
AC_47	347137	6113842	55° 08.856'N	005° 23.923'W	75	3,718	76,851	310,309	220,0	8,7
AC_48	346547	6113358	55° 08.584'N	005° 24.463'W	73	0,763	77,615	309,546	228,7	7,6
AC_49	346278	6113071	55° 08.424'N	005° 24.706'W	75	0,394	78,009	309,152	221,1	19,1
AC_50	345570	6111481	55° 07.555'N	005° 25.319'W	80	1,740	79,748	307,412	202,0	10,4
AC_51	345181	6110912	55° 07.241'N	005° 25.666'W	82	0,689	80,438	306,723	212,4	20,2
AC_52	345081	6110513	55° 07.024'N	005° 25.748'W	83	0,411	80,849	306,311	192,1	13,0
AC_53	344880	6110120	55° 06.808'N	005° 25.924'W	85	0,442	81,291	305,870	205,1	15,8
AC_54	344808	6109760	55° 06.613'N	005° 25.980'W	84	0,368	81,659	305,502	189,3	12,8
AC_55	344539	6109158	55° 06.284'N	005° 26.213'W	87	0,659	82,317	304,843	202,1	1,4
AC_56	344279	6108615	55° 05.986'N	005° 26.439'W	93	0,602	82,920	304,241	203,5	4,7

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_57	344113	6108329	55° 05.829'N	005° 26.586'W	95	0,331	83,251	303,910	208,2	10,0
AC_58	343994	6108005	55° 05.652'N	005° 26.687'W	95	0,345	83,596	303,564	198,2	4,0
AC_59	343870	6107730	55° 05.502'N	005° 26.794'W	99	0,301	83,897	303,263	202,2	19,6
AC_60	343711	6107565	55° 05.410'N	005° 26.938'W	100	0,230	84,127	303,034	221,9	3,0
AC_61	343453	6107322	55° 05.274'N	005° 27.173'W	103	0,354	84,481	302,680	224,9	7,8
AC_62	342927	6106675	55° 04.916'N	005° 27.645'W	100	0,834	85,314	301,846	217,1	19,4
AC_63	342859	6106486	55° 04.812'N	005° 27.702'W	103	0,202	85,516	301,644	197,7	17,3
AC_64	342847	6106192	55° 04.654'N	005° 27.705'W	106	0,294	85,810	301,351	180,4	10,8
AC_65	342878	6105981	55° 04.541'N	005° 27.668'W	104	0,213	86,023	301,138	169,6	20,0
AC_66	343026	6105707	55° 04.396'N	005° 27.520'W	98	0,312	86,335	300,826	149,6	18,7
AC_67	343063	6105485	55° 04.277'N	005° 27.478'W	98	0,225	86,560	300,600	168,4	18,6
AC_68	343025	6105242	55° 04.146'N	005° 27.506'W	103	0,245	86,806	300,355	187,0	10,1
AC_69	342945	6105013	55° 04.021'N	005° 27.573'W	104	0,243	87,049	300,112	197,1	7,6
AC_70	342827	6104778	55° 03.892'N	005° 27.676'W	105	0,262	87,311	299,849	204,7	9,4
AC_71	342451	6104264	55° 03.608'N	005° 28.012'W	107	0,638	87,949	299,212	214,2	11,7
AC_72	342333	6104004	55° 03.466'N	005° 28.114'W	107	0,286	88,234	298,926	202,5	2,7
AC_73	342177	6103700	55° 03.299'N	005° 28.251'W	111	0,342	88,576	298,585	205,2	10,1
AC_74	342054	6103539	55° 03.210'N	005° 28.361'W	110	0,202	88,778	298,382	215,3	9,3
AC_75	341870	6103365	55° 03.113'N	005° 28.528'W	107	0,253	89,032	298,129	224,6	18,8
AC_76	341776	6103187	55° 03.015'N	005° 28.610'W	106	0,201	89,233	297,928	205,8	12,3
AC_77	341699	6102911	55° 02.865'N	005° 28.673'W	109	0,287	89,519	297,641	193,6	6,1
AC_78	341623	6102722	55° 02.761'N	005° 28.737'W	112	0,204	89,723	297,437	199,7	6,7
AC_79	341524	6102539	55° 02.661'N	005° 28.824'W	113	0,208	89,932	297,229	206,4	11,2
AC_80	341428	6102228	55° 02.492'N	005° 28.904'W	121	0,325	90,257	296,904	195,2	7,6
AC_81	341332	6102021	55° 02.378'N	005° 28.987'W	130	0,228	90,485	296,675	202,8	20,4

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_82	341314	6101783	55° 02.250'N	005° 28.997'W	130	0,239	90,724	296,437	182,4	8,1
AC_83	341333	6101477	55° 02.085'N	005° 28.968'W	130	0,307	91,031	296,130	174,4	11,8
AC_84	341304	6101274	55° 01.976'N	005° 28.989'W	129	0,204	91,235	295,925	186,1	11,8
AC_85	341228	6101063	55° 01.861'N	005° 29.053'W	124	0,224	91,459	295,701	197,9	5,8
AC_86	341140	6100881	55° 01.761'N	005° 29.130'W	133	0,203	91,662	295,499	203,6	19,4
AC_87	340997	6100739	55° 01.681'N	005° 29.258'W	131	0,201	91,863	295,297	223,1	19,6
AC_88	340812	6100652	55° 01.631'N	005° 29.429'W	131	0,204	92,068	295,093	242,7	6,8
AC_89	340492	6100545	55° 01.567'N	005° 29.726'W	128	0,338	92,405	294,755	249,5	18,6
AC_90	340208	6100331	55° 01.446'N	005° 29.985'W	122	0,356	92,762	294,399	231,0	19,8
AC_91	339780	6099677	55° 01.086'N	005° 30.364'W	129	0,781	93,543	293,618	211,1	4,4
AC_92	339596	6099342	55° 00.902'N	005° 30.526'W	129	0,382	93,925	293,235	206,8	10,9
AC_93	339435	6099149	55° 00.795'N	005° 30.670'W	132	0,251	94,176	292,985	217,7	4,5
AC_94	339242	6098875	55° 00.644'N	005° 30.842'W	133	0,335	94,511	292,649	213,2	6,3
AC_95	339110	6098636	55° 00.512'N	005° 30.958'W	130	0,274	94,785	292,376	206,9	2,3
AC_96	338970	6098358	55° 00.360'N	005° 31.079'W	130	0,311	95,096	292,065	204,5	1,1
AC_97	338804	6098008	55° 00.168'N	005° 31.223'W	129	0,387	95,483	291,677	203,5	10,8
AC_98	338532	6097639	54° 59.964'N	005° 31.465'W	129	0,458	95,941	291,219	214,2	16,5
AC_99	338448	6097405	54° 59.836'N	005° 31.536'W	131	0,249	96,191	290,970	197,8	1,8
AC_100	338379	6097193	54° 59.721'N	005° 31.594'W	131	0,223	96,413	290,747	196,0	5,0
Scotland/Northern Ireland waters	338209	6096796	54° 59.503'N	005° 31.739'W	137	0,432	96,845	290,315	201,0	0,0
AC_101	338082	6096496	54° 59.339'N	005° 31.848'W	140	0,326	97,171	289,990	201,0	3,0
AC_102	337904	6096009	54° 59.074'N	005° 31.998'W	139	0,518	97,689	289,471	198,0	6,4
AC_103	337808	6095815	54° 58.967'N	005° 32.082'W	140	0,216	97,905	289,255	204,4	6,3
AC_104	337686	6095483	54° 58.786'N	005° 32.184'W	143	0,354	98,260	288,901	198,0	12,2
AC_105	337557	6095278	54° 58.673'N	005° 32.298'W	142	0,242	98,501	288,659	210,2	18,9

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_106	337372	6095129	54° 58.589'N	005° 32.467'W	144	0,238	98,739	288,421	229,1	3,7
Hibernia_A_Cable_IS	337031	6094818	54° 58.415'N	005° 32.775'W	145	0,462	99,201	287,960	225,5	0,0
AC_107	336843	6094646	54° 58.319'N	005° 32.945'W	143	0,255	99,456	287,705	225,4	18,2
AC_108	336566	6094152	54° 58.047'N	005° 33.188'W	141	0,566	100,022	287,139	207,3	19,6
AC_109	336443	6093445	54° 57.664'N	005° 33.279'W	149	0,718	100,740	286,421	187,7	12,2
AC_110	336454	6093188	54° 57.526'N	005° 33.260'W	148	0,257	100,997	286,163	175,5	0,2
AC_111	336497	6092234	54° 57.012'N	005° 33.187'W	148	0,955	101,953	285,208	175,3	0,8
AC_112	336510	6091831	54° 56.796'N	005° 33.162'W	149	0,402	102,355	284,806	176,1	5,9
AC_113	336546	6091563	54° 56.652'N	005° 33.118'W	150	0,271	102,626	284,535	170,2	3,1
AC_114	336563	6091357	54° 56.542'N	005° 33.096'W	149	0,206	102,832	284,328	173,3	1,2
AC_115	336599	6091006	54° 56.353'N	005° 33.050'W	149	0,353	103,185	283,976	172,1	17,0
AC_116	336679	6090815	54° 56.252'N	005° 32.968'W	149	0,207	103,392	283,768	155,1	4,8
AC_117	336741	6090623	54° 56.150'N	005° 32.904'W	149	0,202	103,594	283,566	159,9	14,6
Scotland_North-Ireland_2_Cable_IS	336823	6090496	54° 56.083'N	005° 32.823'W	149	0,151	103,746	283,415	145,3	0,0
AC_118	336927	6090333	54° 55.997'N	005° 32.720'W	149	0,194	103,939	283,221	145,3	16,1
AC_119	336985	6090140	54° 55.894'N	005° 32.659'W	150	0,202	104,141	283,020	161,4	11,2
MOYLE_Interconnector_North_Cable_IS	337099	6089922	54° 55.779'N	005° 32.545'W	151	0,246	104,387	282,774	150,2	0,0
AC_120	337306	6089529	54° 55.571'N	005° 32.338'W	150	0,444	104,831	282,330	150,2	5,6
AC_121	337435	6089212	54° 55.403'N	005° 32.207'W	150	0,341	105,172	281,988	155,8	7,3
AC_122	337709	6088726	54° 55.147'N	005° 31.934'W	149	0,558	105,731	281,430	148,5	3,7
AC_123	337809	6088519	54° 55.037'N	005° 31.834'W	148	0,230	105,961	281,200	152,2	1,4
Scotland_to_Northern_Ireland_(SNIP)_Pipeline_IS	337929	6088285	54° 54.913'N	005° 31.714'W	148	0,263	106,224	280,937	150,8	0,0
MOYLE_Interconnector_South_Cable_IS	338085	6087979	54° 54.752'N	005° 31.557'W	148	0,344	106,568	280,593	150,8	0,0

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AC_124	338168	6087818	54° 54.666'N	005° 31.474'W	147	0,181	106,749	280,412	150,8	5,5
AC_125	338277	6087544	54° 54.521'N	005° 31.363'W	145	0,294	107,043	280,117	156,3	7,4
AC_126	338493	6087154	54° 54.315'N	005° 31.148'W	140	0,446	107,489	279,672	148,9	3,3
AC_127	338604	6086925	54° 54.194'N	005° 31.037'W	137	0,255	107,744	279,417	152,2	3,0
AC_128	338840	6086362	54° 53.895'N	005° 30.797'W	141	0,611	108,354	278,806	155,2	18,7
LANIS_3_(3)_Cable_IS	338976	6086206	54° 53.814'N	005° 30.664'W	139	0,207	108,562	278,599	136,6	0,0
AC_129	339125	6086038	54° 53.726'N	005° 30.520'W	139	0,225	108,786	278,374	136,6	5,4
AC_130	339321	6085853	54° 53.631'N	005° 30.330'W	136	0,269	109,055	278,105	131,2	20,4
AC_131	339413	6085668	54° 53.533'N	005° 30.238'W	135	0,207	109,262	277,898	151,6	20,0
AC_132	339436	6085467	54° 53.424'N	005° 30.210'W	135	0,203	109,465	277,696	171,6	14,9
AC_133	339385	6085126	54° 53.240'N	005° 30.247'W	133	0,344	109,809	277,351	186,5	4,6
AC_134	339274	6084651	54° 52.982'N	005° 30.334'W	138	0,488	110,297	276,864	191,1	19,1
AC_135	339313	6084276	54° 52.781'N	005° 30.285'W	138	0,377	110,674	276,486	171,9	2,4
AC_136	339331	6083992	54° 52.628'N	005° 30.259'W	135	0,285	110,959	276,201	174,4	3,3
AC_137	339332	6083683	54° 52.462'N	005° 30.247'W	134	0,309	111,268	275,893	177,7	3,9
AC_138	339354	6083379	54° 52.298'N	005° 30.217'W	136	0,305	111,573	275,587	173,9	20,5
AC_139	339439	6083192	54° 52.199'N	005° 30.131'W	137	0,205	111,778	275,382	153,4	6,3
AC_140	339502	6083000	54° 52.097'N	005° 30.065'W	137	0,202	111,980	275,181	159,7	19,7
AC_141	339497	6082793	54° 51.985'N	005° 30.064'W	137	0,208	112,188	274,973	179,4	1,7
AC_142	339498	6082556	54° 51.858'N	005° 30.055'W	136	0,237	112,425	274,736	177,7	16,6
AC_143	339441	6082362	54° 51.752'N	005° 30.101'W	136	0,203	112,627	274,533	194,3	17,6
Cable Unknown_(1)	339442	6082323	54° 51.731'N	005° 30.099'W	137	0,039	112,666	274,494	176,7	0,0
Cable Unknown_(2)	339446	6082145	54° 51.635'N	005° 30.090'W	137	0,178	112,844	274,316	176,7	0,0
AC_144	339447	6082076	54° 51.598'N	005° 30.086'W	136	0,069	112,913	274,247	176,7	3,6
AC_145	339469	6081810	54° 51.456'N	005° 30.057'W	135	0,266	113,179	273,981	173,2	3,3

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AC_146	339475	6081594	54° 51.339'N	005° 30.044'W	133	0,216	113,396	273,765	176,4	7,1
AC_147	339520	6081296	54° 51.179'N	005° 29.992'W	135	0,302	113,698	273,463	169,4	3,7
AC_148	339554	6080897	54° 50.965'N	005° 29.947'W	136	0,400	114,098	273,063	173,1	11,7
AC_149	339622	6080671	54° 50.845'N	005° 29.877'W	135	0,236	114,333	272,827	161,4	6,3
AC_150	339667	6080420	54° 50.710'N	005° 29.826'W	135	0,256	114,589	272,571	167,7	19,4
AC_151	339608	6080056	54° 50.513'N	005° 29.868'W	135	0,369	114,958	272,203	187,1	15,2
AC_152	339651	6079649	54° 50.295'N	005° 29.815'W	135	0,409	115,367	271,793	171,9	9,1
AC_153	339722	6079389	54° 50.156'N	005° 29.740'W	135	0,269	115,636	271,524	162,8	14,8
AC_154	339724	6078905	54° 49.895'N	005° 29.722'W	135	0,484	116,121	271,040	177,7	4,2
AC_155	339766	6078379	54° 49.613'N	005° 29.666'W	135	0,527	116,648	270,512	173,5	17,5
AC_156	339930	6077973	54° 49.397'N	005° 29.499'W	133	0,438	117,086	270,074	155,9	1,1
AC_157	340004	6077778	54° 49.293'N	005° 29.423'W	133	0,209	117,295	269,866	157,1	16,0
AC_158	340124	6077618	54° 49.210'N	005° 29.306'W	135	0,200	117,495	269,666	141,0	14,5
AC_159	340242	6077334	54° 49.059'N	005° 29.187'W	135	0,307	117,802	269,359	155,5	6,1
AC_160	340422	6077003	54° 48.884'N	005° 29.008'W	130	0,377	118,179	268,981	149,4	16,0
AC_161	340493	6076687	54° 48.715'N	005° 28.932'W	127	0,323	118,503	268,658	165,4	9,5
AC_162	340586	6076457	54° 48.593'N	005° 28.837'W	124	0,249	118,751	268,410	155,9	12,1
AC_163	340877	6076027	54° 48.367'N	005° 28.551'W	121	0,520	119,271	267,890	143,8	2,5
Knock_Bay- Whitehead_Telegraph_Ca ble_OOS	340929	6075958	54° 48.331'N	005° 28.501'W	121	0,086	119,356	267,804	141,3	0,0
AC_164	341217	6075571	54° 48.128'N	005° 28.219'W	121	0,483	119,839	267,321	141,3	10,7
AC_165	341496	6075314	54° 47.995'N	005° 27.950'W	122	0,380	120,219	266,942	130,6	13,8
AC_166	341611	6075141	54° 47.903'N	005° 27.837'W	123	0,208	120,427	266,734	144,4	4,0
AC_167	341804	6074890	54° 47.772'N	005° 27.650'W	129	0,316	120,743	266,418	140,4	11,7
AC_168	342477	6074311	54° 47.473'N	005° 27.003'W	130	0,888	121,631	265,530	128,7	1,1

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_169	342818	6074006	54° 47.315'N	005° 26.676'W	129	0,457	122,088	265,073	129,8	4,8
AC_170	343374	6073586	54° 47.099'N	005° 26.144'W	130	0,697	122,785	264,376	125,1	4,8
AC_171	343741	6073355	54° 46.981'N	005° 25.794'W	130	0,434	123,219	263,942	120,3	6,9
Port_Kale-Whitehead_Telegraph_Cable_OOS	343954	6073181	54° 46.892'N	005° 25.590'W	135	0,275	123,494	263,666	127,1	0,0
AC_172	344071	6073086	54° 46.843'N	005° 25.478'W	136	0,150	123,644	263,516	127,1	1,3
AC_173	344399	6072806	54° 46.698'N	005° 25.163'W	139	0,432	124,076	263,084	128,5	1,0
AC_174	344560	6072664	54° 46.625'N	005° 25.009'W	139	0,214	124,290	262,870	129,5	7,2
AC_175	344827	6072483	54° 46.532'N	005° 24.754'W	140	0,323	124,613	262,547	122,2	8,0
AC_176	344978	6072346	54° 46.461'N	005° 24.609'W	143	0,204	124,817	262,344	130,2	11,2
AC_177	345218	6072202	54° 46.388'N	005° 24.380'W	144	0,280	125,097	262,063	119,0	5,9
AC_178	345380	6072080	54° 46.325'N	005° 24.225'W	145	0,203	125,300	261,860	124,9	3,3
AC_179	345551	6071936	54° 46.251'N	005° 24.062'W	146	0,223	125,523	261,638	128,2	4,8
AC_180	345707	6071781	54° 46.170'N	005° 23.912'W	145	0,220	125,743	261,417	133,0	4,1
AC_181	345881	6071629	54° 46.092'N	005° 23.744'W	149	0,231	125,974	261,186	128,9	3,8
AC_182	346325	6071294	54° 45.919'N	005° 23.320'W	150	0,556	126,531	260,630	125,2	1,5
AC_183	346526	6071149	54° 45.845'N	005° 23.128'W	148	0,248	126,779	260,382	123,7	13,5
AC_184	346683	6070968	54° 45.750'N	005° 22.976'W	148	0,240	127,019	260,142	137,1	5,3
AC_185	346771	6070846	54° 45.686'N	005° 22.890'W	148	0,151	127,169	259,991	142,4	6,8
AC_186	347331	6069825	54° 45.146'N	005° 22.336'W	152	1,164	128,333	258,827	149,3	0,6
AC_187	347507	6069514	54° 44.982'N	005° 22.163'W	156	0,357	128,690	258,470	148,7	7,4
Donaghadee-Port_Kale_No3_Telegraph_Cable_OOS	347610	6069376	54° 44.909'N	005° 22.062'W	157	0,173	128,863	258,297	141,3	0,0
AC_188	347982	6068878	54° 44.648'N	005° 21.700'W	152	0,621	129,485	257,676	141,3	6,7
AC_189	348499	6067986	54° 44.176'N	005° 21.191'W	158	1,031	130,516	256,644	148,0	3,4

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_190	348663	6067738	54° 44.046'N	005° 21.030'W	163	0,297	130,813	256,347	144,6	8,9
AC_191	348795	6067449	54° 43.893'N	005° 20.898'W	159	0,318	131,131	256,029	153,5	17,6
Donaghadee- Port_Kale_No4_Coax_Ca ble_OOS	348813	6067301	54° 43.813'N	005° 20.877'W	157	0,149	131,280	255,880	171,1	0,0
AC_192	348835	6067128	54° 43.720'N	005° 20.852'W	155	0,174	131,455	255,706	171,1	3,8
AC_193	348878	6066900	54° 43.598'N	005° 20.804'W	155	0,232	131,686	255,474	167,3	1,5
AC_194	348932	6066651	54° 43.465'N	005° 20.746'W	151	0,255	131,942	255,219	165,8	12,0
AC_195	349024	6066448	54° 43.357'N	005° 20.654'W	161	0,223	132,164	254,996	153,8	5,4
AC_196	349128	6066265	54° 43.261'N	005° 20.552'W	164	0,210	132,374	254,786	148,4	5,0
AC_197	349253	6065993	54° 43.116'N	005° 20.427'W	161	0,300	132,674	254,486	153,4	2,3
AC_198	349395	6065713	54° 42.968'N	005° 20.286'W	160	0,314	132,988	254,173	151,2	1,0
AC_199	349540	6065415	54° 42.810'N	005° 20.142'W	162	0,332	133,320	253,841	152,1	19,4
AC_200	349967	6064993	54° 42.590'N	005° 19.731'W	162	0,601	133,921	253,240	132,8	18,0
AC_201	350098	6064739	54° 42.456'N	005° 19.602'W	162	0,285	134,206	252,955	150,8	6,1
AC_202	350234	6064534	54° 42.348'N	005° 19.469'W	162	0,247	134,452	252,708	144,7	2,3
AC_203	350590	6063943	54° 42.036'N	005° 19.119'W	163	0,690	135,142	252,018	147,0	2,6
AC_204	350826	6063508	54° 41.806'N	005° 18.886'W	164	0,494	135,637	251,524	149,6	20,2
AC_205	350866	6063234	54° 41.659'N	005° 18.841'W	164	0,278	135,914	251,246	169,8	4,6
AC_206	350930	6062957	54° 41.511'N	005° 18.773'W	162	0,284	136,198	250,962	165,2	19,9
Cable Unknown_(3)	350981	6062878	54° 41.469'N	005° 18.723'W	160	0,094	136,293	250,868	145,3	0,0
Scotland- North_Ireland_1_Cable_IS	351058	6062757	54° 41.405'N	005° 18.647'W	157	0,144	136,436	250,724	145,3	0,0
AC_207	351206	6062527	54° 41.284'N	005° 18.503'W	161	0,273	136,709	250,451	145,3	18,3
Cable Unknown_(4)	351217	6062485	54° 41.261'N	005° 18.491'W	161	0,044	136,753	250,407	163,7	0,0
AC_208	351261	6062314	54° 41.170'N	005° 18.445'W	159	0,177	136,930	250,231	163,7	20,4
Donaghadee-	351248	6062182	54°41.099'N	005°18.453'W	163	0,133	137,063	250,098	184,1	0,0

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
Port_Kale_No2_Telegraph Cable_OOS										
AC_209	351241	6062118	54° 41.064'N	005° 18.458'W	163	0,064	137,127	250,034	184,1	8,6
AC_210	351251	6061912	54° 40.954'N	005° 18.443'W	165	0,206	137,333	249,828	175,4	2,8
AC_211	351250	6061639	54° 40.806'N	005° 18.435'W	165	0,273	137,606	249,555	178,2	17,7
AC_212	351313	6061441	54° 40.701'N	005° 18.371'W	166	0,208	137,814	249,347	160,6	18,6
AC_213	351434	6061275	54° 40.614'N	005° 18.253'W	165	0,206	138,019	249,141	142,0	6,2
AC_214	351624	6061067	54° 40.505'N	005° 18.070'W	163	0,281	138,301	248,860	135,7	13,8
AC_215	351862	6060907	54° 40.423'N	005° 17.843'W	158	0,287	138,588	248,573	122,0	18,8
AC_216	351985	6060746	54° 40.338'N	005° 17.724'W	155	0,203	138,791	248,370	140,8	12,2
AC_217	352131	6060437	54° 40.174'N	005° 17.579'W	163	0,342	139,133	248,028	152,9	18,8
AC_218	352303	6060258	54° 40.081'N	005° 17.414'W	163	0,248	139,381	247,779	134,1	8,8
AC_219	352430	6060079	54° 39.986'N	005° 17.290'W	170	0,220	139,601	247,560	142,9	5,8
AC_220	352602	6059881	54° 39.883'N	005° 17.125'W	161	0,262	139,863	247,298	137,1	5,0
AC_221	352851	6059539	54° 39.703'N	005° 16.883'W	155	0,423	140,286	246,875	142,1	7,4
AC_222	352949	6059358	54° 39.607'N	005° 16.787'W	156	0,205	140,491	246,669	149,5	2,0
AC_223	353057	6059143	54° 39.493'N	005° 16.680'W	156	0,241	140,732	246,428	151,6	2,7
AC_224	353144	6058946	54° 39.389'N	005° 16.593'W	155	0,215	140,947	246,213	154,3	12,5
AC_225	353220	6058566	54° 39.185'N	005° 16.511'W	156	0,388	141,336	245,825	166,8	1,6
AC_226	353275	6058243	54° 39.012'N	005° 16.450'W	158	0,327	141,663	245,498	168,4	10,6
AC_227	353388	6057939	54° 38.850'N	005° 16.335'W	160	0,325	141,988	245,173	157,8	0,3
AC_228	353513	6057607	54° 38.674'N	005° 16.209'W	162	0,354	142,342	244,819	157,5	0,7
AC_229	353682	6057143	54° 38.426'N	005° 16.038'W	166	0,495	142,837	244,324	158,1	6,3
AC_230	353804	6056643	54° 38.159'N	005° 15.910'W	167	0,514	143,351	243,810	164,4	6,7
AC_231	353966	6056209	54° 37.928'N	005° 15.747'W	169	0,463	143,814	243,347	157,8	4,9
AC_232	354044	6055926	54° 37.777'N	005° 15.666'W	166	0,294	144,108	243,053	162,7	5,0

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_233	354105	6055598	54° 37.602'N	005° 15.600'W	166	0,333	144,441	242,720	167,7	7,6
AC_234	354220	6055242	54° 37.412'N	005° 15.482'W	164	0,374	144,815	242,345	160,1	0,7
AC_235	354348	6054868	54° 37.212'N	005° 15.352'W	162	0,396	145,211	241,950	159,4	7,1
AC_236	354443	6054402	54° 36.963'N	005° 15.250'W	160	0,475	145,686	241,474	166,5	16,3
AC_237	354543	6054214	54° 36.864'N	005° 15.152'W	159	0,213	145,899	241,262	150,3	14,8
AC_238	354600	6053967	54° 36.731'N	005° 15.091'W	158	0,253	146,152	241,008	165,1	9,6
AC_239	354683	6053768	54° 36.625'N	005° 15.008'W	158	0,216	146,369	240,792	155,5	4,4
AC_240	354747	6053576	54° 36.523'N	005° 14.943'W	158	0,203	146,571	240,589	159,9	11,2
AC_241	354806	6053100	54° 36.268'N	005° 14.874'W	158	0,479	147,051	240,110	171,1	0,6
AC_242	354834	6052888	54° 36.154'N	005° 14.842'W	157	0,214	147,264	239,896	170,5	12,0
AC_243	354818	6052673	54° 36.038'N	005° 14.850'W	150	0,216	147,480	239,680	182,5	11,5
AC_244	354759	6052464	54° 35.924'N	005° 14.899'W	148	0,217	147,697	239,463	194,0	7,4
AC_245	354636	6052179	54° 35.769'N	005° 15.005'W	163	0,310	148,008	239,153	201,4	18,7
AC_246	354620	6051974	54° 35.658'N	005° 15.014'W	161	0,206	148,214	238,947	182,7	20,2
AC_247	354681	6051755	54° 35.541'N	005° 14.951'W	158	0,227	148,440	238,720	162,6	6,4
AC_248	354856	6051323	54° 35.311'N	005° 14.776'W	160	0,467	148,907	238,254	156,2	18,1
AC_249	354875	6051047	54° 35.162'N	005° 14.750'W	158	0,277	149,184	237,977	174,2	4,6
AC_250	354915	6050775	54° 35.017'N	005° 14.704'W	157	0,275	149,459	237,702	169,6	19,6
AC_251	355056	6050511	54° 34.877'N	005° 14.565'W	155	0,299	149,758	237,403	150,1	11,9
AC_252	355200	6050340	54° 34.787'N	005° 14.427'W	156	0,223	149,981	237,180	138,2	3,1
AC_253	355425	6050040	54° 34.629'N	005° 14.209'W	158	0,376	150,357	236,804	141,2	8,9
AC_254	355736	6049457	54° 34.321'N	005° 13.904'W	159	0,660	151,017	236,144	150,1	8,8
AC_255	355873	6049065	54° 34.112'N	005° 13.765'W	160	0,416	151,433	235,728	158,9	5,0
AC_256	356219	6048296	54° 33.703'N	005° 13.422'W	149	0,843	152,276	234,884	153,9	9,7
AC_257	356491	6047893	54° 33.491'N	005° 13.158'W	149	0,486	152,762	234,398	144,2	6,7

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_258	356613	6047656	54° 33.365'N	005° 13.038'W	150	0,267	153,029	234,132	150,9	18,0
AC_259	356646	6047455	54° 33.258'N	005° 13.001'W	147	0,203	153,232	233,928	168,9	17,7
AC_260	356616	6047254	54° 33.149'N	005° 13.023'W	144	0,204	153,436	233,724	186,6	14,8
AC_261	356529	6047051	54° 33.038'N	005° 13.098'W	140	0,220	153,656	233,504	201,4	19,8
AC_262	356389	6046902	54° 32.955'N	005° 13.223'W	138	0,205	153,861	233,299	221,2	18,1
AC_263	356258	6046621	54° 32.801'N	005° 13.336'W	140	0,310	154,171	232,989	203,1	15,4
AC_264	356185	6046181	54° 32.563'N	005° 13.392'W	139	0,446	154,617	232,543	187,7	1,9
AC_265	356119	6045858	54° 32.388'N	005° 13.443'W	138	0,330	154,947	232,214	189,6	3,0
AC_266	356073	6045547	54° 32.220'N	005° 13.476'W	141	0,315	155,261	231,899	186,6	13,7
AC_267	356094	6045317	54° 32.096'N	005° 13.450'W	145	0,231	155,492	231,669	173,0	11,1
AC_268	356062	6045003	54° 31.926'N	005° 13.471'W	146	0,316	155,808	231,353	184,0	17,1
AC_269	356110	6044761	54° 31.797'N	005° 13.419'W	137	0,246	156,054	231,107	167,0	17,0
AC_270	356414	6044194	54° 31.497'N	005° 13.121'W	140	0,644	156,698	230,463	150,0	1,2
AC_271	356628	6043814	54° 31.296'N	005° 12.911'W	141	0,436	157,134	230,027	148,8	6,1
AC_272	356785	6043595	54° 31.180'N	005° 12.760'W	143	0,270	157,404	229,757	142,7	19,9
AC_273	356859	6043331	54° 31.039'N	005° 12.684'W	136	0,274	157,678	229,482	162,6	3,4
AC_274	356942	6042949	54° 30.835'N	005° 12.596'W	138	0,391	158,069	229,092	166,0	11,3
AC_275	356951	6042375	54° 30.525'N	005° 12.570'W	141	0,574	158,643	228,517	177,2	11,5
AC_276	356876	6041973	54° 30.308'N	005° 12.628'W	146	0,409	159,052	228,109	188,8	19,1
AC_277	357081	6040613	54° 29.578'N	005° 12.399'W	141	1,376	160,428	226,733	169,6	1,0
AC_278	357229	6039728	54° 29.104'N	005° 12.236'W	140	0,897	161,325	225,836	168,7	14,4
AC_279	357017	6037230	54° 27.754'N	005° 12.360'W	141	2,508	163,832	223,328	183,1	16,2
AC_280	356877	6036866	54° 27.556'N	005° 12.479'W	136	0,390	164,222	222,938	199,2	16,4
AC_281	356583	6036481	54° 27.343'N	005° 12.740'W	124	0,485	164,707	222,454	215,6	2,9
AC_282	356201	6035925	54° 27.037'N	005° 13.077'W	127	0,675	165,382	221,779	212,7	4,2

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_283	355996	6035670	54° 26.897'N	005° 13.259'W	125	0,327	165,708	221,452	216,9	15,7
LANIS_2_Cable_IS	355775	6035512	54° 26.808'N	005° 13.459'W	121	0,272	165,980	221,180	232,7	0,0
AC_284	355148	6035065	54° 26.556'N	005° 14.025'W	133	0,770	166,751	220,410	232,7	18,7
AC_285	354674	6034407	54° 26.193'N	005° 14.444'W	124	0,811	167,562	219,599	214,0	20,5
AC_286	354369	6033289	54° 25.586'N	005° 14.693'W	119	1,159	168,720	218,440	193,5	16,7
AC_287	354395	6032198	54° 24.998'N	005° 14.636'W	121	1,092	169,812	217,348	176,8	0,3
AC_288	354416	6031520	54° 24.633'N	005° 14.597'W	118	0,678	170,491	216,670	176,4	1,1
AC_289	354435	6029736	54° 23.672'N	005° 14.528'W	111	1,785	172,275	214,885	177,6	3,4
AC_290	354463	6029322	54° 23.450'N	005° 14.489'W	108	0,415	172,690	214,471	174,2	4,9
AC_291	354458	6028995	54° 23.273'N	005° 14.484'W	112	0,327	173,018	214,143	179,1	3,8
AC_292	354483	6028508	54° 23.011'N	005° 14.447'W	112	0,488	173,505	213,655	175,3	1,3
AC_293	354567	6025426	54° 21.352'N	005° 14.279'W	110	3,083	176,588	210,572	176,6	19,8

Table 2 – Campaign 1 & 2 installation section route

ID (Position Name / Event)	WGS84 - UTM 30 N		WGS84		Water Depth referred to LAT (m)	Geodetic				Turning Angle (deg)
	Easting	Northing	Latitude	Longitude		Partial Distance (km)	KP (km) from Ardneil	RKP (km) from Wirral	Bearing (deg)	
AC_323	367185	5975958	53° 54.900'N	005° 01.332'W	62	0,422	232,637	154,581	96,8	8,6
AC_324	367466	5975963	53° 54.906'N	005° 01.075'W	62	0,282	232,918	154,300	88,2	3,0
AC_325	367817	5975988	53° 54.925'N	005° 00.755'W	66	0,352	233,270	153,948	85,2	4,8
AC_326	368688	5975965	53° 54.926'N	004° 59.959'W	68	0,872	234,142	153,076	90,0	20,7
AC_327	369780	5975539	53° 54.713'N	004° 58.952'W	66	1,172	235,314	151,904	110,6	15,6
AC_328	370527	5975458	53° 54.680'N	004° 58.268'W	63	0,751	236,065	151,152	95,0	8,1
AC_329	370990	5975476	53° 54.697'N	004° 57.846'W	61	0,464	236,529	150,689	86,9	13,8
AC_330	371423	5975598	53° 54.770'N	004° 57.453'W	55	0,451	236,979	150,238	73,2	0,9
AC_331	371749	5975698	53° 54.829'N	004° 57.158'W	62	0,341	237,320	149,897	72,3	18,9
AC_332	372001	5975690	53° 54.828'N	004° 56.928'W	66	0,252	237,572	149,646	91,2	7,3
AC_333	372558	5975596	53° 54.785'N	004° 56.417'W	66	0,565	238,137	149,080	98,4	4,9
AC_334	373074	5975551	53° 54.769'N	004° 55.945'W	71	0,518	238,656	148,562	93,5	1,5
AC_335	374089	5975491	53° 54.751'N	004° 55.017'W	70	1,017	239,672	147,546	92,0	5,1
AC_336	374754	5975510	53° 54.771'N	004° 54.410'W	68	0,666	240,338	146,880	86,9	4,0
AC_337	375644	5975474	53° 54.765'N	004° 53.596'W	75	0,891	241,229	145,988	90,9	7,5
AC_338	376123	5975394	53° 54.729'N	004° 53.158'W	79	0,485	241,714	145,503	98,4	1,5
AC_339	376885	5975289	53° 54.682'N	004° 52.460'W	79	0,769	242,484	144,734	96,9	7,1
AC_340	377550	5975282	53° 54.688'N	004° 51.852'W	77	0,666	243,149	144,068	89,8	4,0
AC_341	377899	5975251	53° 54.676'N	004° 51.532'W	77	0,351	243,500	143,718	93,8	8,1
AC_342	378302	5975160	53° 54.633'N	004° 51.163'W	77	0,413	243,913	143,305	101,9	8,5
AC_343	378849	5975117	53° 54.617'N	004° 50.662'W	75	0,549	244,462	142,756	93,4	5,3
AC_344	379102	5975121	53° 54.623'N	004° 50.431'W	75	0,253	244,715	142,503	88,1	10,2

AC_345	380053	5974969	53° 54.555'N	004° 49.560'W	80	0,963	245,678	141,540	98,4	3,7
AC_346	380396	5974937	53° 54.542'N	004° 49.246'W	81	0,345	246,023	141,195	94,7	3,0
AC_347	380846	5974914	53° 54.536'N	004° 48.835'W	77	0,450	246,473	140,745	91,6	2,8
AC_348	381107	5974892	53° 54.528'N	004° 48.596'W	75	0,262	246,735	140,482	94,4	5,0
AC_349	381307	5974855	53° 54.511'N	004° 48.412'W	73	0,204	246,939	140,278	99,4	10,2
AC_350	381568	5974854	53° 54.513'N	004° 48.174'W	71	0,261	247,200	140,018	89,2	7,3
AC_351	382674	5974703	53° 54.447'N	004° 47.161'W	68	1,116	248,316	138,901	96,5	12,2
AC_352	383209	5974513	53° 54.352'N	004° 46.668'W	65	0,567	248,884	138,334	108,7	10,1
AC_353	384514	5973764	53° 53.966'N	004° 45.460'W	70	1,505	250,389	136,829	118,8	17,8
AC_354	384894	5973682	53° 53.927'N	004° 45.111'W	68	0,389	250,778	136,440	101,1	5,8
AC_355	386028	5973311	53° 53.742'N	004° 44.068'W	74	1,194	251,972	135,246	106,9	18,0
AC_356	386824	5973313	53° 53.753'N	004° 43.342'W	71	0,796	252,768	134,450	88,9	10,9
AC_357	387239	5973393	53° 53.802'N	004° 42.964'W	70	0,423	253,191	134,027	78,0	6,2
AC_358	387564	5973495	53° 53.861'N	004° 42.670'W	72	0,340	253,531	133,687	71,8	6,1
AC_359	388326	5973646	53° 53.952'N	004° 41.978'W	77	0,778	254,308	132,909	77,9	9,5
AC_360	389189	5973964	53° 54.135'N	004° 41.197'W	79	0,920	255,228	131,989	68,5	12,2
AC_361	389581	5974021	53° 54.171'N	004° 40.840'W	78	0,397	255,625	131,593	80,6	12,5
AC_362	390430	5973959	53° 54.148'N	004° 40.064'W	74	0,851	256,476	130,742	93,1	14,2
AC_363	391394	5974135	53° 54.255'N	004° 39.188'W	74	0,980	257,456	129,761	78,9	17,2
AC_364	391883	5974072	53° 54.228'N	004° 38.740'W	73	0,493	257,949	129,269	96,1	0,1
AC_365	392387	5974009	53° 54.200'N	004° 38.278'W	71	0,509	258,458	128,760	96,0	13,9
AC_366	392575	5973937	53° 54.163'N	004° 38.106'W	67	0,201	258,659	128,559	110,0	14,5
AC_367	392828	5973756	53° 54.069'N	004° 37.871'W	62	0,311	258,970	128,248	124,4	12,1
AC_368	393153	5973616	53° 53.997'N	004° 37.571'W	62	0,354	259,324	127,894	112,3	16,9
AC_369	393616	5973567	53° 53.977'N	004° 37.148'W	50	0,465	259,789	127,428	95,4	3,1
AC_370	393820	5973556	53° 53.973'N	004° 36.962'W	51	0,204	259,994	127,224	92,3	19,4
AC_371	394114	5973645	53° 54.025'N	004° 36.695'W	55	0,308	260,301	126,916	72,9	14,2
AC_372	394378	5973656	53° 54.034'N	004° 36.454'W	51	0,264	260,566	126,652	87,1	17,2
AC_373	395271	5973410	53° 53.912'N	004° 35.634'W	45	0,926	261,492	125,726	104,3	6,0

AC_374	395705	5973339	53° 53.879'N	004° 35.236'W	43	0,440	261,932	125,286	98,2	5,3
AC_375	396304	5973300	53° 53.865'N	004° 34.689'W	49	0,600	262,532	124,686	92,9	3,0
AC_376	396510	5973277	53° 53.856'N	004° 34.500'W	49	0,207	262,739	124,478	95,9	7,3
AC_377	396751	5973216	53° 53.825'N	004° 34.279'W	49	0,249	262,988	124,229	103,2	18,4
AC_378	397021	5973239	53° 53.841'N	004° 34.033'W	49	0,272	263,260	123,958	84,8	4,1
AC_379	397405	5973299	53° 53.878'N	004° 33.684'W	50	0,388	263,648	123,570	80,7	14,5
AC_380	398277	5973202	53° 53.836'N	004° 32.886'W	53	0,878	264,526	122,692	95,3	2,4
AC_381	398615	5973181	53° 53.828'N	004° 32.577'W	56	0,339	264,865	122,353	92,9	3,6
AC_382	398999	5973181	53° 53.833'N	004° 32.227'W	57	0,384	265,248	121,969	89,3	1,4
AC_383	399676	5973199	53° 53.851'N	004° 31.609'W	63	0,678	265,926	121,292	87,9	7,0
AC_384	400028	5973168	53° 53.838'N	004° 31.287'W	62	0,354	266,280	120,938	94,9	8,7
AC_385	400392	5973189	53° 53.853'N	004° 30.955'W	63	0,364	266,644	120,574	86,2	14,2
AC_386	400589	5973149	53° 53.834'N	004° 30.775'W	57	0,201	266,845	120,372	100,3	12,2
AC_387	401282	5972848	53° 53.680'N	004° 30.136'W	57	0,756	267,601	119,617	112,5	20,1
AC_388	401617	5972828	53° 53.673'N	004° 29.830'W	65	0,335	267,936	119,281	92,4	4,9
AC_389	402190	5972849	53° 53.691'N	004° 29.308'W	64	0,574	268,510	118,708	87,5	2,2
AC_390	402616	5972880	53° 53.713'N	004° 28.919'W	57	0,428	268,938	118,280	85,3	3,2
AC_391	403045	5972885	53° 53.720'N	004° 28.528'W	61	0,429	269,367	117,851	88,4	14,9
AC_392	403461	5972783	53° 53.670'N	004° 28.146'W	45	0,428	269,795	117,423	103,3	4,2
AC_393	403833	5972659	53° 53.607'N	004° 27.804'W	49	0,393	270,188	117,030	107,5	0,9
AC_394	404172	5972542	53° 53.547'N	004° 27.492'W	53	0,359	270,546	116,671	108,3	5,2
AC_395	404383	5972490	53° 53.522'N	004° 27.299'W	53	0,217	270,764	116,454	103,2	1,2
AC_396	404946	5972366	53° 53.461'N	004° 26.783'W	47	0,576	271,340	115,878	101,9	12,9
AC_397	405137	5972277	53° 53.415'N	004° 26.607'W	52	0,211	271,551	115,667	114,8	2,0
AC_398	405351	5972183	53° 53.367'N	004° 26.410'W	55	0,234	271,785	115,433	112,8	2,9
AC_399	405552	5972084	53° 53.316'N	004° 26.225'W	58	0,223	272,009	115,209	115,7	7,5
Isle of Man/International waters	405900	5971967	53° 53.257'N	004° 25.905'W	57	0,368	272,376	114,842	108,2	0,0

AC_400	406050	5971916	53° 53.231'N	004° 25.767'W	57	0,158	272,534	114,684	108,2	8,7
AC_401	406346	5971861	53° 53.204'N	004° 25.496'W	55	0,301	272,836	114,382	99,5	7,7
AC_402	406558	5971792	53° 53.169'N	004° 25.301'W	54	0,224	273,059	114,159	107,3	0,1
AC_403	406816	5971711	53° 53.129'N	004° 25.064'W	53	0,270	273,330	113,888	107,1	16,6
AC_404	407082	5971704	53° 53.128'N	004° 24.822'W	58	0,265	273,595	113,623	90,6	5,2
AC_405	407518	5971734	53° 53.148'N	004° 24.424'W	49	0,437	274,032	113,186	85,3	16,6
AC_406	407880	5971650	53° 53.107'N	004° 24.093'W	51	0,372	274,404	112,814	101,9	3,3
AC_407	408153	5971573	53° 53.068'N	004° 23.842'W	53	0,284	274,688	112,530	105,2	13,2
AC_408	408361	5971565	53° 53.066'N	004° 23.652'W	56	0,208	274,896	112,322	92,0	3,0
AC_409	408608	5971566	53° 53.069'N	004° 23.426'W	55	0,247	275,143	112,074	89,0	17,7
AC_410	408953	5971456	53° 53.014'N	004° 23.110'W	50	0,362	275,505	111,713	106,7	3,1
AC_411	409576	5971300	53° 52.936'N	004° 22.539'W	51	0,642	276,147	111,070	103,6	1,8
AC_412	409802	5971236	53° 52.904'N	004° 22.330'W	50	0,236	276,383	110,835	105,4	2,9
AC_413	410037	5971180	53° 52.876'N	004° 22.116'W	53	0,241	276,624	110,593	102,5	4,3
AC_414	410483	5971043	53° 52.807'N	004° 21.707'W	50	0,466	277,091	110,127	106,8	4,9
AC_415	410682	5970963	53° 52.766'N	004° 21.523'W	49	0,215	277,306	109,912	111,7	6,6
AC_416	411015	5970776	53° 52.669'N	004° 21.216'W	52	0,382	277,687	109,530	118,3	6,1
AC_417	411282	5970661	53° 52.609'N	004° 20.971'W	52	0,291	277,978	109,240	112,2	16,8
AC_418	411660	5970622	53° 52.592'N	004° 20.625'W	51	0,380	278,359	108,859	95,4	11,9
AC_419	412092	5970478	53° 52.519'N	004° 20.228'W	48	0,456	278,815	108,403	107,3	16,9
AC_420	412432	5970473	53° 52.519'N	004° 19.918'W	45	0,339	279,154	108,064	90,5	8,6
AC_421	412631	5970438	53° 52.503'N	004° 19.736'W	44	0,202	279,356	107,862	99,0	6,1
AC_422	413010	5970332	53° 52.450'N	004° 19.388'W	45	0,394	279,750	107,468	105,1	4,5
AC_423	413235	5970288	53° 52.428'N	004° 19.182'W	44	0,229	279,979	107,238	100,7	4,3
AC_424	413744	5970221	53° 52.397'N	004° 18.717'W	44	0,513	280,492	106,725	96,4	7,1
AC_425	414180	5970109	53° 52.341'N	004° 18.317'W	43	0,451	280,943	106,274	103,6	7,3
AC_426	414499	5970069	53° 52.323'N	004° 18.026'W	46	0,321	281,264	105,953	96,3	4,3
AC_427	414746	5970019	53° 52.298'N	004° 17.799'W	47	0,253	281,517	105,701	100,6	11,9
AC_428	414932	5969940	53° 52.257'N	004° 17.628'W	47	0,202	281,719	105,499	112,5	3,9

AC_429	415125	5969872	53° 52.223'N	004° 17.451'W	47	0,205	281,924	105,294	108,6	16,1
AC_430	415298	5969749	53° 52.158'N	004° 17.291'W	48	0,213	282,136	105,081	124,7	0,1
AC_431	415477	5969623	53° 52.092'N	004° 17.126'W	49	0,219	282,355	104,863	124,6	4,0
AC_432	415764	5969451	53° 52.002'N	004° 16.861'W	50	0,335	282,690	104,528	120,6	16,0
AC_433	416277	5969310	53° 51.931'N	004° 16.391'W	50	0,532	283,222	103,996	104,6	0,6
AC_434	416854	5969157	53° 51.854'N	004° 15.862'W	49	0,597	283,818	103,399	104,0	10,5
AC_435	417747	5969090	53° 51.826'N	004° 15.047'W	52	0,896	284,714	102,503	93,5	9,4
AC_436	419675	5968612	53° 51.586'N	004° 13.281'W	48	1,987	286,701	100,516	102,9	3,6
AC_437	420113	5968477	53° 51.518'N	004° 12.878'W	48	0,459	287,160	100,058	106,5	9,0
AC_438	420573	5968416	53° 51.489'N	004° 12.458'W	49	0,464	287,624	99,594	97,6	4,5
AC_439	420838	5968357	53° 51.460'N	004° 12.215'W	49	0,272	287,896	99,322	102,0	8,5
AC_440	421094	5968259	53° 51.409'N	004° 11.981'W	49	0,274	288,170	99,048	110,5	11,7
AC_441	421479	5968014	53° 51.281'N	004° 11.626'W	45	0,457	288,626	98,591	122,2	9,8
AC_442	421864	5967849	53° 51.195'N	004° 11.272'W	47	0,419	289,045	98,172	112,5	9,7
AC_443	422077	5967799	53° 51.170'N	004° 11.077'W	47	0,219	289,265	97,953	102,8	18,1
AC_444	422443	5967831	53° 51.191'N	004° 10.744'W	46	0,367	289,631	97,586	84,6	7,4
AC_445	422677	5967822	53° 51.188'N	004° 10.530'W	45	0,235	289,866	97,352	92,0	1,7
AC_446	422890	5967820	53° 51.189'N	004° 10.336'W	47	0,213	290,079	97,139	90,3	10,0
AC_447	423156	5967771	53° 51.165'N	004° 10.093'W	47	0,270	290,349	96,868	100,3	3,8
AC_448	423703	5967628	53° 51.093'N	004° 09.592'W	48	0,566	290,915	96,303	104,1	4,9
AC_449	424244	5967434	53° 50.993'N	004° 09.096'W	47	0,575	291,490	95,728	109,0	10,1
AC_450	424968	5967026	53° 50.779'N	004° 08.429'W	48	0,832	292,321	94,896	119,1	12,6
AC_451	425164	5966965	53° 50.748'N	004° 08.249'W	48	0,205	292,527	94,691	106,5	17,5
AC_452	425421	5966967	53° 50.751'N	004° 08.016'W	47	0,256	292,783	94,434	89,1	2,2
AC_453	425742	5966956	53° 50.748'N	004° 07.722'W	45	0,322	293,105	94,112	91,2	18,0
AC_454	426536	5966679	53° 50.605'N	004° 06.995'W	48	0,841	293,946	93,272	109,3	16,4
AC_455	426757	5966665	53° 50.600'N	004° 06.793'W	46	0,221	294,167	93,050	92,9	8,8
AC_456	427269	5966715	53° 50.631'N	004° 06.326'W	45	0,515	294,683	92,535	84,1	9,7
AC_457	427588	5966690	53° 50.620'N	004° 06.035'W	43	0,320	295,003	92,215	93,8	18,8

AC_458	427784	5966608	53° 50.577'N	004° 05.855'W	42	0,213	295,215	92,002	112,6	0,9
AC_459	428092	5966473	53° 50.507'N	004° 05.573'W	43	0,336	295,551	91,666	113,6	9,7
AC_460	428266	5966355	53° 50.445'N	004° 05.412'W	45	0,211	295,762	91,456	123,3	8,0
AC_461	428459	5966261	53° 50.396'N	004° 05.235'W	44	0,214	295,976	91,241	115,3	19,0
AC_462	428665	5966237	53° 50.385'N	004° 05.047'W	42	0,208	296,184	91,034	96,3	12,3
AC_463	428908	5966260	53° 50.399'N	004° 04.826'W	43	0,244	296,428	90,789	84,1	12,5
AC_464	429117	5966234	53° 50.387'N	004° 04.635'W	42	0,210	296,639	90,579	96,6	12,8
AC_465	429425	5966125	53° 50.331'N	004° 04.353'W	40	0,327	296,965	90,252	109,5	9,9
AC_466	429711	5966074	53° 50.305'N	004° 04.092'W	43	0,290	297,256	89,962	99,6	4,9
AC_467	429995	5966051	53° 50.295'N	004° 03.832'W	42	0,285	297,541	89,677	94,7	13,8
AC_468	430524	5965868	53° 50.201'N	004° 03.348'W	42	0,560	298,101	89,117	108,5	9,1
AC_469	430948	5965797	53° 50.166'N	004° 02.960'W	45	0,431	298,531	88,686	99,3	8,0
AC_470	431464	5965778	53° 50.160'N	004° 02.490'W	43	0,516	299,047	88,171	91,3	4,5
AC_471	431713	5965749	53° 50.146'N	004° 02.261'W	43	0,252	299,299	87,919	95,8	13,2
AC_472	432022	5965640	53° 50.090'N	004° 01.979'W	44	0,327	299,626	87,592	109,1	2,6
AC_473	432275	5965563	53° 50.050'N	004° 01.747'W	43	0,265	299,890	87,327	106,5	16,5
AC_474	432511	5965407	53° 49.968'N	004° 01.530'W	42	0,283	300,173	87,045	123,0	1,5
AC_475	432794	5965229	53° 49.875'N	004° 01.270'W	42	0,334	300,507	86,710	121,5	13,1
AC_476	433055	5965143	53° 49.830'N	004° 01.030'W	41	0,276	300,783	86,435	108,3	13,2
AC_477	433298	5965118	53° 49.819'N	004° 00.809'W	41	0,244	301,027	86,191	95,1	5,4
AC_478	433507	5965079	53° 49.799'N	004° 00.618'W	41	0,213	301,240	85,978	100,5	13,0
AC_479	434295	5964734	53° 49.619'N	003° 59.895'W	41	0,860	302,101	85,117	113,6	15,7
AC_480	435608	5964546	53° 49.527'N	003° 58.696'W	40	1,327	303,428	83,790	97,8	5,5
AC_481	436121	5964418	53° 49.462'N	003° 58.227'W	40	0,529	303,957	83,261	103,3	3,4
AC_482	436782	5964215	53° 49.358'N	003° 57.622'W	39	0,691	304,648	82,570	106,8	3,4
AC_483	437201	5964113	53° 49.305'N	003° 57.239'W	38	0,432	305,079	82,138	103,3	4,9
AC_484	437545	5963999	53° 49.247'N	003° 56.924'W	38	0,363	305,442	81,776	108,2	3,5
AC_485	438545	5963734	53° 49.111'N	003° 56.010'W	39	1,034	306,476	80,741	104,7	13,4
AC_486	439125	5963423	53° 48.947'N	003° 55.478'W	39	0,658	307,135	80,083	118,1	6,7

AC_487	439940	5962841	53° 48.639'N	003° 54.728'W	39	1,002	308,136	79,081	124,8	9,6
AC_488	441105	5962276	53° 48.343'N	003° 53.660'W	38	1,296	309,432	77,786	115,2	13,5
AC_489	441448	5962003	53° 48.198'N	003° 53.345'W	37	0,438	309,870	77,348	128,6	5,7
AC_490	441732	5961723	53° 48.048'N	003° 53.083'W	37	0,399	310,269	76,948	134,4	13,7
AC_491	442355	5961345	53° 47.849'N	003° 52.511'W	34	0,729	310,999	76,219	120,6	11,5
AC_492	442574	5961267	53° 47.809'N	003° 52.311'W	37	0,232	311,231	75,987	109,2	3,7
AC_493	442945	5961109	53° 47.725'N	003° 51.970'W	37	0,404	311,635	75,583	112,9	16,5
AC_494	443182	5960910	53° 47.620'N	003° 51.753'W	37	0,309	311,944	75,274	129,4	14,8
AC_495	443450	5960538	53° 47.421'N	003° 51.505'W	37	0,458	312,402	74,815	144,2	9,1
AC_496	444035	5959948	53° 47.107'N	003° 50.965'W	36	0,831	313,234	73,984	135,0	2,0
AC_497	444343	5959661	53° 46.954'N	003° 50.681'W	37	0,422	313,656	73,562	133,0	12,4
AC_498	444733	5959432	53° 46.833'N	003° 50.324'W	37	0,452	314,108	73,110	120,7	18,0
AC_499	445312	5959301	53° 46.766'N	003° 49.796'W	36	0,594	314,701	72,517	102,7	10,5
AC_500	445837	5959077	53° 46.648'N	003° 49.315'W	36	0,572	315,273	71,945	113,2	11,3
AC_501	446043	5958934	53° 46.573'N	003° 49.126'W	37	0,250	315,523	71,695	124,5	21,0
AC_502	446186	5958729	53° 46.463'N	003° 48.994'W	37	0,250	315,773	71,444	145,5	17,4
AC_503	446260	5958485	53° 46.332'N	003° 48.924'W	36	0,255	316,028	71,189	162,9	18,0
AC_504	446246	5957897	53° 46.015'N	003° 48.930'W	36	0,588	316,617	70,601	180,8	3,5
Hibernia_C_Cable_IS	446311	5956122	53° 45.058'N	003° 48.853'W	37	1,777	318,394	68,824	177,4	0,0
Sirius_South_Cable_IS	446411	5953369	53° 43.574'N	003° 48.733'W	38	2,756	321,149	66,068	177,4	0,0
ESAT2_Cable_IS	446485	5951362	53° 42.492'N	003° 48.646'W	39	2,009	323,159	64,059	177,4	0,0
AC_505	446513	5950592	53° 42.077'N	003° 48.612'W	36	0,770	323,929	63,289	177,4	1,3
AC_506	446533	5949777	53° 41.638'N	003° 48.585'W	37	0,816	324,745	62,473	178,6	4,9
AC_507	446631	5948851	53° 41.139'N	003° 48.486'W	35	0,932	325,677	61,541	173,7	9,2
AC_508	446796	5948235	53° 40.808'N	003° 48.331'W	38	0,638	326,315	60,903	164,5	16,9
AC_509	447182	5947613	53° 40.474'N	003° 47.974'W	39	0,732	327,047	60,171	147,6	1,4
AC_510	447596	5947001	53° 40.147'N	003° 47.592'W	39	0,739	327,786	59,432	146,2	15,9
AC_511	447784	5946412	53° 39.831'N	003° 47.415'W	41	0,618	328,404	58,814	162,2	1,0
AC_512	447952	5945904	53° 39.557'N	003° 47.257'W	40	0,536	328,940	58,278	161,1	12,4

AC_513	448329	5945292	53° 39.230'N	003° 46.909'W	39	0,719	329,659	57,559	148,7	17,2
AC_514	448734	5944934	53° 39.039'N	003° 46.537'W	39	0,541	330,199	57,018	131,6	9,0
AC_515	448894	5944737	53° 38.934'N	003° 46.390'W	38	0,254	330,454	56,764	140,6	4,6
AC_516	449091	5944535	53° 38.826'N	003° 46.209'W	37	0,282	330,736	56,482	136,0	12,6
AC_517	450254	5942641	53° 37.811'N	003° 45.136'W	35	2,223	332,959	54,258	148,5	0,3
AC_518	451296	5940932	53° 36.896'N	003° 44.174'W	35	2,002	334,962	52,256	148,2	16,5
AC_519	451668	5940603	53° 36.720'N	003° 43.834'W	37	0,497	335,459	51,759	131,6	17,6
AC_520	455950	5938697	53° 35.715'N	003° 39.935'W	36	4,688	340,147	47,071	114,0	17,1
AC_521	456274	5938412	53° 35.563'N	003° 39.638'W	36	0,432	340,579	46,639	131,2	17,0
AC_522	456817	5937525	53° 35.087'N	003° 39.139'W	37	1,040	341,619	45,598	148,2	17,2
AC_523	457331	5937071	53° 34.846'N	003° 38.669'W	37	0,686	342,305	44,913	131,0	19,4
AC_524	457832	5936186	53° 34.371'N	003° 38.209'W	34	1,017	343,322	43,896	150,4	8,1
AC_525	458075	5935563	53° 34.036'N	003° 37.983'W	31	0,670	343,992	43,226	158,4	12,6
AC_526	458367	5935137	53° 33.807'N	003° 37.715'W	30	0,516	344,508	42,709	145,8	3,1
AC_527	458866	5934323	53° 33.371'N	003° 37.257'W	30	0,955	345,463	41,755	148,9	1,0
AC_528	459734	5932848	53° 32.579'N	003° 36.459'W	29	1,712	347,175	40,042	149,9	11,5
International/Wales waters	459816	5932756	53° 32.530'N	003° 36.384'W	30	0,123	347,299	39,919	138,4	0,0
AC_529	460206	5932320	53° 32.297'N	003° 36.028'W	29	0,585	347,884	39,334	138,4	9,1
AC_530	460340	5932109	53° 32.183'N	003° 35.905'W	29	0,250	348,134	39,084	147,6	20,9
AC_531	460405	5931800	53° 32.017'N	003° 35.843'W	29	0,316	348,450	38,768	168,4	7,0
AC_532	460555	5931363	53° 31.782'N	003° 35.704'W	29	0,462	348,912	38,306	161,4	12,9
AC_533	460691	5931142	53° 31.663'N	003° 35.580'W	29	0,260	349,172	38,046	148,5	19,7
AC_534	460890	5930981	53° 31.578'N	003° 35.399'W	30	0,255	349,427	37,791	128,8	16,7
AC_535	461222	5930850	53° 31.508'N	003° 35.097'W	30	0,358	349,785	37,433	112,1	15,0
PL_1030_Pipeline_IS	461493	5930815	53° 31.491'N	003° 34.852'W	30	0,273	350,058	37,160	97,1	0,0
PL_1032/1033_Pipeline_IS	461506	5930814	53° 31.490'N	003° 34.840'W	30	0,013	350,071	37,147	97,1	0,0
AC_536	462055	5930744	53° 31.455'N	003° 34.342'W	29	0,554	350,625	36,593	97,1	18,0
AC_541	462386	5930806	53° 31.490'N	003° 34.043'W	29	0,336	350,962	36,256	79,0	1,2

AC_542A	462561	5930835	53° 31.506'N	003° 33.885'W	29	0,177	351,139	36,079	80,2	18,5
AC_542B	463028	5931091	53° 31.646'N	003° 33.464'W	29	0,533	351,672	35,546	61,7	11,3

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