

East Meath - North Dublin Grid Upgrade Environmental Impact Assessment Report (EIAR): Volume 3

Appendix A4.1 – Utility Crossings

EirGrid

March 2024



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Appendix A4.1 – Utility Crossings

1. Utility Crossings

1.1 Utility Crossings

The following tables identify the crossings of existing known utilities based on the existing utility information available at this stage of the Proposed Development and the proposed cable route outlined in Chapter 4 (Proposed Development Description) in Volume 2 of this Environmental Impact Assessment Report (EIAR). Also refer to Chapter 17 (Material Assets) in Volume 2 of the EIAR for further details on utilities). Grid co-ordinates are based on the Irish Transverse Mercator (ITM). Further surveys and assessment will be undertaken pre-construction, subject to granting of planning permission.

1.1.1 Uisce Éireann

Table 1.1: Uisce Éireann (UÉ) Crossings

Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage (m)	UÉ Asset Type (Water / Wastewater)	UÉ Asset Diameter (mm)	UÉ Asset Material
	X	Y				
1	694086	745176	3,635	Water	125	High Density Polyethylene (HDPE)
2	695538	744532	5,371	Water	125	HDPE
3	697063	744042	7,038	Water	0	Unsurveyed
4	698558	743535	8,705	Water	150	HDPE
5	699681	743102	9,934	Water	100	Unplasticised Polyvinyl Chloride (uPVC)
6	699681	743102	9,934	Water	150	HDPE
7	699734	743073	9,997	Water	0	Unsurveyed
8	699846	742976	10,145	Water	0	Unsurveyed
9	699915	742915	10,237	Water	0	Unsurveyed
10	699972	742875	10,306	Water	0	Unsurveyed
11	700447	742695	10,830	Water	100	uPVC
12	700450	742696	10,834	Water	150	HDPE
13	700518	742748	10,921	Water	0	Unsurveyed
14	701715	744439	13,227	Wastewater	140	HDPE
15	701715	744445	13,231	Water	355	HDPE
16	701668	744762	13,619	Water	180	HDPE
17	702767	744622	14,742	Water	25	HDPE
18	703518	744765	15,623	Water	0	Unsurveyed
19	703640	744970	15,864	Water	75	uPVC
20	704151	745077	16,574	Water	75	uPVC
21	704382	745089	16,806	Water	75	uPVC
22	706502	745692	19,199	Water	100	uPVC
23	706805	745435	19,645	Wastewater	350	Ductile Iron (DI)
24	706851	745367	19,725	Wastewater	350	DI
25	706870	745335	19,771	Wastewater	350	DI
26	707138	744877	20,300	Water	100	uPVC
27	707237	744702	20,502	Wastewater	350	DI
28	707271	744644	20,586	Wastewater	350	DI
29	709176	744165	23,195	Water	50.8	uPVC

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Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage (m)	UÉ Asset Type (Water / Wastewater)	UÉ Asset Diameter (mm)	UÉ Asset Material
	X	Y				
30	709252	744258	23,316	Water	101.6	uPVC
31	709458	744524	23,666	Water	101.6	uPVC
32	709757	744883	24,140	Water	450	DI
33	709761	744883	24,143	Water	450	DI
34	709763	744886	24,146	Abandoned Water	Unknown	Unknown
35	710041	745067	24,478	Water	450	DI
36	710041	745067	24,478	Water	450	DI
37	710054	745076	24,494	Water	90	Molecular-oriented Polyvinyl Chloride (MOPVC)
38	710078	745096	24,527	Abandoned Water	Unknown	Unknown
39	710156	745146	24,619	Water	203.2	Asbestos Cement (AC)
40	710174	745149	24,638	Wastewater	0	PE
41	710174	745149	24,638	Wastewater	200	PE
42	710189	745160	24,657	Water	177.8	AC
43	710295	745229	24,785	Water	250	High performance polyethylene (HPPE)
44	710321	745246	24,816	Water	50.8	uPVC
45	710459	745334	24,980	Water	25	Medium density polyethylene (MDPE)
46	710800	745557	25,387	Water	125	HPPE
47	710846	745586	25,442	Water	25	MDPE
48	710847	745587	25,443	Water	25	MDPE
49	710959	745646	25,571	Water	25	MDPE
50	711128	745687	25,754	Water	25	Unknown
51	711444	745770	26,080	Water	25	Unknown
52	711554	745821	26,203	Water	177.8	AC
53	711616	745815	26,267	Water	177.8	AC
54	711835	745832	26,509	Water	25	Unknown
55	711895	745849	26,572	Water	25	Unknown
56	712303	745785	27,005	Water	200	DI
57	712338	745791	27,041	Water	50	MDPE
58	712342	745792	27,044	Water	50.8	uPVC
59	712371	745786	27,076	Water	101.6	uPVC
60	712398	745701	27,166	Water	101.6	uPVC
61	712470	745616	27,283	Water	101.6	uPVC
62	712651	745218	27,724	Water	101.6	uPVC
63	712715	745161	27,809	Water	101.6	uPVC
64	713009	744751	28,326	Water	101.6	uPVC
65	713301	744711	28,625	Water	1200	DI
66	713412	744691	28,739	Water	914.4	CO
67	715344	744634	30,713	Water	101.6	uPVC
68	715356	744648	30,731	Water	300	AC
69	717168	744352	32,679	Water	254	AC

Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage (m)	UÉ Asset Type (Water / Wastewater)	UÉ Asset Diameter (mm)	UÉ Asset Material
	X	Y				
70	717189	744340	32,703	Water	609.6	AC
71	717675	744120	33,273	Water	225	MOPVC
72	717692	744102	33,300	Water	152.4	AC
73	719022	743172	35,487	Water	125	HPPE

1.1.2 Overhead Lines and Underground Cables

Table 1.2: Overhead Line (OHL) and Underground Cable (UGC) crossings

Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage	Voltage or kV	Overhead Line (OHL) / Underground Cable (UGC)
	X	Y			
1	694999	747951	13	MV	UGC
2	694827	747945	223	400	UGC
3	694810	747953	242	MV	OHL
4	694765	747984	299	MV	OHL
5	694657	747836	562	MV	OHL
6	694430	746865	1,731	MV	OHL
7	694119	745271	3,533	MV	OHL
8	694477	745085	4,039	LV	OHL
9	694492	745082	4,055	LV	OHL
10	694721	745021	4,291	LV	OHL
11	694778	745012	4,349	MV	OHL
12	694855	745009	4,427	LV	OHL
13	695426	744774	5,087	LV	OHL
14	695443	744758	5,110	LV	OHL
15	695530	744652	5,249	110	OHL
16	695690	744432	5,564	LV	OHL
17	695717	744425	5,592	MV	OHL
18	696186	744373	6,093	LV	OHL
19	696215	744359	6,127	LV	OHL
20	696271	744333	6,189	MV	OHL
21	696343	744300	6,268	LV	OHL
22	696480	744246	6,415	LV	OHL
23	696670	744159	6,626	MV	OHL
24	697034	744048	7,009	LV	UGC
25	697039	744047	7,013	LV	OHL
26	697069	744041	7,044	LV	OHL
27	697196	744038	7,171	LV	OHL
28	697211	744037	7,186	MV	OHL
29	697382	744034	7,357	110	OHL
30	697829	744027	7,804	LV	OHL
31	697912	744019	7,888	220	OHL
32	697919	744016	7,896	220	OHL
33	697982	743980	7,969	MV	OHL
34	698341	743708	8,421	110	OHL

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Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage	Voltage or kV	Overhead Line (OHL) / Underground Cable (UGC)
	X	Y			
35	698744	743467	8,907	LV	OHL
36	698776	743460	8,940	LV	OHL
37	698973	743390	9,162	MV	OHL
38	699035	743338	9,243	MV	OHL
39	699102	743311	9,316	LV	OHL
40	699140	743297	9,356	LV	OHL
41	699165	743287	9,383	LV	OHL
42	699319	743231	9,547	LV	OHL
43	699366	743213	9,597	LV	UGC
44	699439	743186	9,675	LV	OHL
45	699588	743130	9,834	MV	OHL
46	699833	742987	10,128	LV	OHL
47	700037	742832	10,385	LV	OHL
48	700064	742812	10,418	LV	OHL
49	700113	742777	10,478	LV	OHL
50	700197	742756	10,566	LV	OHL
51	700283	742750	10,652	LV	OHL
52	700525	742754	10,930	MV	UGC
53	700694	742915	11,164	110	OHL
54	700934	743153	11,502	MV	UGC
55	701535	743988	12,545	MV	UGC
56	701612	744750	13,557	MV	UGC
57	701927	744714	13,883	LV	OHL
58	701973	744702	13,930	LV	OHL
59	702005	744693	13,963	LV	OHL
60	702058	744674	14,020	LV	OHL
61	702076	744668	14,039	LV	OHL
62	702142	744665	14,106	MV	OHL
63	702215	744668	14,179	220	OHL
64	702518	744626	14,493	MV	OHL
65	702812	744615	14,787	LV	OHL
66	702852	744608	14,842	LV	OHL
67	703398	744658	15,458	MV	OHL
68	703433	744677	15,498	MV	OHL
69	703576	744857	15,733	LV	OHL
70	703862	745047	16,136	MV	OHL
71	704048	745068	16,471	MV	OHL
72	704115	745075	16,538	LV	OHL
73	704150	745077	16,574	MV	OHL
74	704389	745089	16,812	LV	OHL
75	704875	745008	17,326	LV	OHL
76	705159	745292	17,755	110	OHL
77	705358	745367	17,975	MV	OHL
78	705620	745459	18,270	MV	OHL

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Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage	Voltage or kV	Overhead Line (OHL) / Underground Cable (UGC)
	X	Y			
79	706630	745625	19,378	MV	OHL
80	706657	745617	19,410	MV	OHL
81	706880	745320	19,789	LV	UGC
82	707127	744898	20,278	LV	OHL
83	707166	744831	20,355	LV	OHL
84	707238	744700	20,504	MV	OHL
85	707459	744325	20,959	LV	OHL
86	707658	744037	21,317	MV	OHL
87	707885	743971	21,566	MV	OHL
88	707890	743972	21,570	MV	OHL
89	709073	744039	23,032	LV	OHL
90	709089	744054	23,053	LV	OHL
91	709104	744067	23,073	LV	OHL
92	709171	744159	23,187	LV	OHL
93	709183	744174	23,207	110	OHL
94	709187	744179	23,213	110	OHL
95	709242	744249	23,302	MV	OHL
96	709741	744874	24,121	LV	OHL
97	709911	744982	24,323	38	OHL
98	710092	745107	24,543	LV	OHL
99	710294	745229	24,784	MV	OHL
100	710307	745236	24,799	LV	OHL
101	710791	745551	25,376	LV	UGC
102	710901	745622	25,508	LV	OHL
103	710976	745662	25,594	LV	OHL
104	711188	745703	25,816	LV	OHL
105	711310	745734	25,941	LV	OHL
106	711380	745753	26,014	LV	OHL
107	711446	745771	26,082	LV	OHL
108	711601	745822	26,249	110	OHL
109	711715	745780	26,377	LV	OHL
110	711859	745842	26,535	LV	OHL
111	711875	745845	26,551	LV	OHL
112	712289	745785	26,992	MV	OHL
113	712455	745634	27,254	MV	OHL
114	712460	745628	27,262	LV	OHL
115	712582	745335	27,583	LV	OHL
116	712713	745163	27,806	LV	OHL
117	712729	745149	27,828	MV	OHL
118	712829	745051	27,971	LV	OHL
119	715785	744706	31,191	MV	UGC
120	715785	744705	31,192	MV	UGC
121	716022	744563	31,473	MV	UGC
122	716115	744495	31,589	MV	UGC

Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage	Voltage or kV	Overhead Line (OHL) / Underground Cable (UGC)
	X	Y			
123	717190	744340	32,704	LV	OHL
124	717311	744303	32,832	LV	UGC
125	717832	744050	33,455	MV	OHL
126	718786	743570	34,853	MV	OHL
127	718925	743546	35,012	MV	OHL
128	719041	743518	35,140	MV	OHL
129	718756	742490	36,297	38	OHL
130	718827	742427	36,411	38	OHL
131	719053	742240	36,748	MV	UGC
132	719058	742214	36,774	38	OHL
133	718925	741785	37,237	220	UGC

1.1.3 Gas Networks Ireland

Table 1.3: Gas Networks Ireland crossings

Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage	Pressure
	X	Y		
1	701715	744439	13,227	4 bar (Medium Pressure)
2	712346	745793	27,049	70 bar (High Pressure)
3	712451	745640	27,247	70 bar (High Pressure)
4	717737	744103	33,347	4 bar (Medium Pressure)
5	719022	743172	35,487	4 bar (Medium Pressure)

1.1.4 20kV MSD BioNX Corduff Circuit

Table 1.4: 20kV MSD BioNX Corduff Circuit Crossings

Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage
	X	Y	
1	701884	744723	13,839
2	703148	744485	15,152
3	703174	744493	15,180
4	703635	744968	15,857
5	705563	745441	18,200

1.1.5 DAA Landing Lights

Table 1.5: DAA Landing Lights Crossings

Crossing ID	Approximate Crossing Location (Irish Grid Coordinates)		Chainage
	X	Y	
1	715359	744652	30,737

1.1.6 AirNav

Table 1.6: AirNav Crossings

Crossing ID	Approximate Crossing	
	Townland	Road
1	Forrest Great	Naul Road