

Viking CCS Pipeline

**Environmental
Statement Volume IV –
Appendix 12-2:
Construction Traffic
Flows**

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1 Introduction

- 1.1.1 This Appendix sets out construction traffic flows, broken down into total and daily flows, based on the start and end date of each construction activity. This document shows how the daily flow at each access point has been derived for purposes of assessing the impact of the development in *ES Volume II: Chapter 12 Traffic and Transport (Application Document 6.2.12)*.
- 1.1.2 For ease of reporting the route has been split into five separate sections, running north to south, as follows:
- Section 1 – Runs from Immingham to the A180;
 - Section 2 – Runs from the A180 to the south of Immingham to the A46, just to the west of the A18 at Laceby;
 - Section 3 – Runs from west of Laceby to Pear Tree Lane, to the east of the A18 close to Ludborough;
 - Section 4 – Runs from Pear Tree Lane to the B1200 to the east of Manby, and
 - Section 5 – Runs from the B1200 to Theddlethorpe.
- 1.1.3 This document sets out the daily traffic at each access point as part of construction within each of the five pipeline route sections.

2 Construction Traffic Flows

2.1 Overview

- 2.1.1 **Table 1** below outlines the number of vehicles associated with each construction activity. This is then followed by **Table 2** which outlines the breakdown of the vehicles associated with each construction activity based on the information provided in **Table 1**.
- 2.1.2 This document then provides further information about the monthly and daily traffic flows based on this information for each of the route sections. This information has been used to derive the traffic impact assessment within *ES Volume II: Chapter 12 Traffic and Transport (Application Document 6.2.12)* to assess the impact of the proposed construction traffic on the highway network on the assumption that all works will occur concurrently.

Table 1: Activity Type and Proposed Vehicles

Crews	Start Date	End Date	Management/ Construction Personnel (Total numbers)	Major Pieces Construction Equipment for Low-loader Moves (Total numbers)	Total No. HGV Journeys	Total No. Mini-coach Journeys	Total No. LGV Journeys
Project Management	01/02/2026	25/11/2026	27	10	32	-	2,540
Project Support Services	01/02/2026	25/11/2026	49	-	5,588	254	2,286
Set-up Pipe Dumps & Reinstate	01/10/2025	30/11/2025	38	18	643	60	240
Pipe from Immingham Docks to Pipe Dumps (2 Pipes/Load)	01/11/2025	02/03/2026	21	12	2,575	103	309
Emergency Crew	01/04/2026	27/11/2026	4	2	240	<1	240
Erosion Control / Environmental	07/04/2026	03/12/2026	13	3	240	<1	480
Set Out RoW Fencing, Pipeline Centreline and As-built	01/04/2026	23/11/2026	6	2	<1	<1	472
RoW Access (114no. Ditches/Field Drains)	01/04/2026	04/09/2026	14	6	224	112	112
Right of Way Fencing	02/04/2026	05/09/2026	17	5	54	112	112
Stoned Hard Standings, and Roads including Reinstate	06/04/2026	14/11/2026	30	19	8319	177	177
Laydown, Welfare and Parking Areas	13/04/2026	30/10/2026	10	-	102	<1	<1
Welfare and Parking Areas	13/04/2026	30/10/2026	10	-	18	<1	<1
Bridges Install & Remove	15/06/2026	31/10/2026	11	5	24	<1	32
Topsoil Strip	09/04/2026	08/09/2026	14	8	90	112	224
Load-out - Haul and String (2 Pipes/Load)	13/04/2026	12/09/2026	24	17	3,411	224	224
Field Bending (94 Days @ 600m/day + 13 Moves)	20/04/2026	19/09/2026	7	4	36	<1	224
End Prep Crew (100no Pipe Ends/Day)	27/04/2026	24/09/2026	9	5	252	<1	110
Mainline Welding (4534 Welds @ 50 welds/Day + 11 Moves)	28/04/2026	25/09/2026	61	14	318	220	550
Poor Boy/Pre-Fabrication Crew (546 Welds @ 6/day + 11 Moves)	28/04/2026	27/09/2026	33	10	332	112	336
Non-Destructive Testing (NDT) (4 Crews)	28/04/2026	03/10/2026	14	6	472	<1	236
Field Joint Coating (3 Mobile Units)	11/05/2026	18/10/2026	35	5	354	<1	590
Trenching	18/05/2026	17/10/2026	16	8	90	112	224
Bedding & Padding	20/05/2026	19/10/2026	16	14	1016	<1	224
Lowering-in	22/05/2026	21/10/2026	24	8	368	112	112
Open-cut Crossings (118no.)	18/05/2026	17/10/2026	22	8	190	118	236
Pre-cast Concrete Slabs	18/05/2026	13/07/2026	4	20	40	<1	<1
Tie-in Crews (2no. - 112+ Tie-in Welds)	20/05/2026	21/10/2026	28	13	332	112	448
Cathodic Protection	18/05/2026	22/11/2026	5	4	140	<1	280
Backfill	25/05/2026	24/10/2026	11	8	108	112	112
Reinstatement	01/06/2026	31/10/2026	19	13	274	112	112
Marker Posts (188no. @ 4/Day)	10/08/2023	26/10/2023	5	3	94	<1	47

Crews	Start Date	End Date	Management/ Construction Personnel (Total numbers)	Major Pieces Construction Equipment for Low-loader Moves (Total numbers)	Total No. HGV Journeys	Total No. Mini-coach Journeys	Total No. LGV Journeys
Hedge Reinstatement (224no.)	10/08/2026	27/10/2026	9	3	74	<1	56
Roads - Tarmac Repair/Resurfacing (42no.)	17/08/2026	24/10/2026	7	2	46	<1	46
Horizontal Directional Drilling (10no.) 2 Crews	04/05/2026	15/10/2026	34	18	980	240	480
Auger Crossings (81no.) 4 Crews	04/05/2026	15/10/2026	45	15	1272	<1	1200
Micro tunnel (2no.)	01/06/2026	15/10/2026	10	14	122	<1	200
Clean and Gauge (4 Sections)	27/07/2026	23/10/2026	16	7	132	60	180
Hydro test (Filling, Testing & Bulk Dewatering) (5no. Sections)	24/08/2026	02/11/2026	22	17	614	50	150
Dew Point Drying	05/11/2026	25/11/2026	8	-	5	<1	60
Pearson/DCVG/CIPS Coating Survey	24/08/2026	30/11/2026	5	-	<1	<1	168
Block Valves (3 no.)	01/06/2026	10/11/2026	43	16	764	<1	960
Immingham and Theddlethorpe AGI's	01/01/2026	31/12/2026	18	9	289	-	-
Totals			661	302	29,985	2,514	14,789

Table 2: Breakdown of Vehicles by Activity Type

CREWS	All vehicles	HGV %	Two-way All Vehicles	Two-Way HGVS
Project Management	2,582	1.2%	5,164	64
Project Support Services	8,128	68.8 %	16,256	11,176
Set-up Pipe Dumps & Reinstate	961	66.9 %	1,922	1,286
Pipe from Immingham Docks to Pipe Dumps (2 Pipes/Load)	2,999	85.9 %	5,998	5,150
Emergency Crew	482	49.8 %	964	480
Erosion Control / Environmental	723	33.2 %	1,446	480
Set Out RoW Fencing, Pipeline Centreline and As-built	474	<1%	948	-
RoW Access (114no. Ditches/Field Drains)	454	49.3 %	908	448
Right of Way Fencing	283	19.1 %	566	108
Stoned Hard Standings, and Roads including Reinstate	8,692	95.7 %	17,384	16,638
Laydown, Welfare and Parking Areas	102	100 %	204	204
Welfare and Parking Areas	18	100 %	36	36
Bridges Install & Remove	61	39.3 %	122	48
Topsoil Strip	434	20.7 %	868	180
Load-out - Haul and String (2 Pipes/Load)	3,876	88%	7,752	6,822
Field Bending (94 Days @ 600m/day + 13 Moves)	264	13.6 %	528	72
End Prep Crew (100no Pipe Ends/Day)	367	68.7 %	734	504
Mainline Welding (4534 Welds @ 50 welds/Day + 11 Moves)	1,102	28.9 %	2,204	636
Poor Boy/Pre-Fabrication Crew (546 Welds @ 6/day + 11 Moves)	790	42%	1,580	664
Non-Destructive Testing (NDT) (4 Crews)	714	66.1 %	1,428	944
Field Joint Coating (3 Mobile Units)	949	37.3 %	1,898	708
Trenching	434	20.7 %	868	180

CREWS	All vehicles	HGV %	Two-way All Vehicles	Two-Way HGVS
Bedding & Padding	1,254	81%	2,508	2,032
Lowering-in	600	61.3 %	1,200	736
Open-cut Crossings (118no.)	552	34.4 %	1,104	380
Pre-cast Concrete Slabs	60	66.7 %	120	80
Tie-in Crews (2no. - 112+ Tie-in Welds)	905	36.7 %	1,810	664
Cathodic Protection	424	33%	848	280
Backfill	340	31.8 %	680	216
Reinstatement	511	53.6 %	1,022	548
Marker Posts (188no. @ 4/Day)	144	65.3 %	288	188
Hedge Reinstatement (224no.)	133	55.6 %	266	148
Roads - Tarmac Repair/Resurfacing (42no.)	94	48.9 %	188	92
Horizontal Directional Drilling (10no.) 2 Crews	1,718	57%	3,436	1,960
Auger Crossings (81no.) 4 Crews	2,487	51.1 %	4,974	2,544
Micro tunnel (2no.)	336	36.3 %	672	244
Clean and Gauge (4 Sections)	379	34.8 %	758	264
Hydro test (Filling, Testing & Bulk Dewatering) (5no. Sections)	831	73.9 %	1,662	1,228
Dew Point Drying	65	7.7%	130	10
Pearson/DCVG/CIPS Coating Survey	168	<1%	336	-
Block Valves (3 no.)	1,740	43.9 %	3,480	1,528
Immingham and Theddlethorpe AGI's	298	97%	596	578
Totals	47,888	63.2 %	95,776	60,548

2.2 Section 1 Construction Traffic Flows

2.2.1 Based upon information developed for the project the vehicle movements across each of the access points have been identified. **Table 3** to **Table 6** outline the following:

- **Table 3:** Daily construction vehicles at each access point based on the start and end date;
- **Table 4:** Daily Construction Vehicles by Access Point, Daily Construction HGVs by Access Point;
- **Table 5:** Breakdown of Daily Construction by Access and Vehicle Type; and
- **Table 6:** Section 1 Breakdown of Daily Construction by Access and Vehicle Type.

Table 3: Section 1 Total Construction Vehicles by Access Point

Construction Activity	RDX001P	RDX002P	RDX003P	RDX004P	RDX005P	RDX006P	RDX007P	RDX008P
Project Management	129	129	257		129			129
Project Support Services	508	508	847		847			847
Emergency Crew	27	27	53		27			27
Erosion Control / Environmental	40	40	80		40			40
Set Out RoW Fencing, Pipeline Centreline and As-built	26	26	52		26			26
RoW Access		53			53			53
Right of Way Fencing	31	31			31			31
Stoned Hard Standings, and Roads including Reinstatement		754	754		754			754
Laydown, Welfare and Parking Areas		12			12			12
Welfare and Parking Areas		6						
Bridges Install & Remove								
Topsoil Strip		50			50			50
Load-out - Haul and String (2 Pipes/Load)	12	19	117		75			391
Field Bending	29	29			29			29
End Prep Crew					45			45
Mainline Welding					136			136
Poor Boy/Pre-Fabrication Crew	87	87			87			87
Non-Destructive Testing (NDT)	79	79			79			79
Field Joint Coating	105	105			105			105
Trenching	47	47			47			47
Bedding & Padding	138	138			138			138
Lowering-in		70			70			70

Construction Activity	RDX001P	RDX002P	RDX003P	RDX004P	RDX005P	RDX006P	RDX007P	RDX008P
Open-cut Crossings	60	60			60			60
Pre-cast Concrete Slabs		4			4			4
Tie-in Crews		105			105			105
Cathodic Protection	47	47			47			47
Backfill	37	37			37			37
Reinstatement	55	55			55			55
Marker Posts	16	16			16			16
Hedge Reinstatement	14	14			14			14
Roads - Tarmac Repair/Resurfacing	5	5	5	5	5			5
Horizontal Directional Drilling					378			378
Auger Crossings	275	275			275			275
Micro tunnel		644						
Clean and Gauge	124							
Hydro test (Filling, Testing & Bulk Dewatering)	271							
Dew Point Drying	65							
Pearson/DCVG/CIPS Coating Survey	9	9	9	9	9			9
Block Valves - Installation and Fit Out	690							
Immingham and Theddlethorpe AGI's	308							
Totals	3,233	3,480	2,175	14	3,784			

Table 4: Section 1 Daily Construction Vehicles by Access Point

Construction Activity	RDX001P	RDX002P	RDX003P	RDX004P	RDX005P	RDX006P	RDX007P	RDX008P
Project Management	<1	<1	1	-	<1	-	-	<1
Project Support Services	2	2	3	-	3	-	-	3
Emergency Crew	<1	<1	<1	-	<1	-	-	<1
Erosion Control / Environmental	<1	<1	<1	-	<1	-	-	<1
Set Out RoW Fencing, Pipeline Centreline and As-built	<1	<1	<1	-	<1	-	-	<1
RoW Access	-	<1	-	-	<1	-	-	<1
Right of Way Fencing	<1	<1	-	-	<1	-	-	<1
Stoned Hard Standings, and Roads including Reinstate	-	3	3	-	3	-	-	3
Laydown, Welfare and Parking Areas	-	<1	-	-	<1	-	-	<1
Welfare and Parking Areas	-	<1	-	-	-	-	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-
Topsoil Strip	-	<1	-	-	<1	-	-	<1
Load-out - Haul and String (2 Pipes/Load)	<1	<1	1	-	<1	-	-	3
Field Bending	<1	<1	-	-	<1	-	-	<1
End Prep Crew	-	-	-	-	<1	-	-	<1
Mainline Welding	-	-	-	-	1	-	-	1
Poor Boy/Pre-Fabrication Crew	1	1	-	-	1	-	-	1
Non-Destructive Testing (NDT)	<1	<1	-	-	<1	-	-	<1
Field Joint Coating	1	1	-	-	1	-	-	1
Trenching	<1	<1	-	-	<1	-	-	<1
Bedding & Padding	1	1	-	-	1	-	-	1

Construction Activity	RDX001P	RDX002P	RDX003P	RDX004P	RDX005P	RDX006P	RDX007P	RDX008P
Lowering-in	-	<1	-	-	<1	-	-	<1
Open-cut Crossings	<1	<1	-	-	<1	-	-	<1
Pre-cast Concrete Slabs	-	<1	-	-	<1	-	-	<1
Tie-in Crews	-	1	-	-	1	-	-	1
Cathodic Protection	<1	<1	-	-	<1	-	-	<1
Backfill	<1	<1	-	-	<1	-	-	<1
Reinstatement	<1	<1	-	-	<1	-	-	<1
Marker Posts	<1	<1	-	-	<1	-	-	<1
Hedge Reinstatement	<1	<1	-	-	<1	-	-	<1
Roads - Tarmac Repair/Resurfacing	<1	<1	<1	<1	<1	-	-	<1
Horizontal Directional Drilling	-	-	-	-	2	-	-	2
Auger Crossings	2	2	-	-	2	-	-	2
Micro tunnel	-	5	-	-	-	-	-	-
Clean and Gauge	1	-	-	-	-	-	-	-
Hydro test (Filling, Testing & Bulk Dewatering)	4	-	-	-	-	-	-	-
Dew Point Drying	3	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey	<1	<1	<1	<1	<1	-	-	<1
Block Valves - Installation and Fit Out	4	-	-	-	-	-	-	-
Immingham and Theddlethorpe AGI's	1	-	-	-	-	-	-	-
Total	22	20	9	<1	20	-	-	22
Total with 20% Uplift	27	23	11	<1	24	-	-	26

Table 5: Section 1 Daily Construction HGVs by Access Point

Construction Activity	RDX001 P	RDX002 P	RDX003 P	RDX004 P	RDX005 P	RDX006 P	RDX007 P	RDX008 P
Project Management	<1	<1	<1	-	<1	-	-	<1
Project Support Services	1	1	2	-	2	-	-	2
Emergency Crew	<1	<1	<1	-	<1	-	-	<1
Erosion Control / Environmental	<1	<1	<1	-	<1	-	-	<1
Set Out RoW Fencing, Pipeline Centreline and As-built	-	-	-	-	-	-	-	-
RoW Access	-	<1	-	-	<1	-	-	<1
Right of Way Fencing	<1	<1	-	-	<1	-	-	<1
Stoned Hard Standings, and Roads including Reinstatement	-	3	3	-	3	-	-	3
Laydown, Welfare and Parking Areas	-	<1	-	-	<1	-	-	<1
Welfare and Parking Areas	-	<1	-	-	-	-	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-
Topsoil Strip	-	<1	-	-	<1	-	-	<1
Load-out - Haul and String (2 Pipes/Load)	<1	<1	1	-	<1	-	-	2
Field Bending	<1	<1	-	-	<1	-	-	<1
End Prep Crew	-	-	-	-	<1	-	-	<1
Mainline Welding	-	-	-	-	<1	-	-	<1
Poor Boy/Pre-Fabrication Crew	<1	<1	-	-	<1	-	-	<1
Non-Destructive Testing (NDT)	<1	<1	-	-	<1	-	-	<1
Field Joint Coating	<1	<1	-	-	<1	-	-	<1
Trenching	<1	<1	-	-	<1	-	-	<1
Bedding & Padding	1	1	-	-	1	-	-	1
Lowering-in	-	<1	-	-	<1	-	-	<1

Construction Activity	RDX001	RDX002	RDX003	RDX004	RDX005	RDX006	RDX007	RDX008
	P	P	P	P	P	P	P	P
Open-cut Crossings	<1	<1	-	-	<1	-	-	<1
Pre-cast Concrete Slabs	-	<1	-	-	<1	-	-	<1
Tie-in Crews	-	<1	-	-	<1	-	-	<1
Cathodic Protection	<1	<1	-	-	<1	-	-	<1
Backfill	<1	<1	-	-	<1	-	-	<1
Reinstatement	<1	<1	-	-	<1	-	-	<1
Marker Posts	<1	<1	-	-	<1	-	-	<1
Hedge Reinstatement	<1	<1	-	-	<1	-	-	<1
Roads - Tarmac Repair/Resurfacing	<1	<1	<1	<1	<1	-	-	<1
Horizontal Directional Drilling	-	-	-	-	1	-	-	1
Auger Crossings	1	1	-	-	1	-	-	1
Micro tunnel	-	2	-	-	-	-	-	-
Clean and Gauge	<1	-	-	-	-	-	-	-
Hydro test (Filling, Testing & Bulk Dewatering)	3	-	-	-	-	-	-	-
Dew Point Drying	<1	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey	-	-	-	-	-	-	-	-
Block Valves - Installation and Fit Out	2	-	-	-	-	-	-	-
Immingham and Theddlethorpe AGI's	1	-	-	-	-	-	-	-
Total	11	11	6	<1	12	<1	<1	14
Total with 20% Uplift	13	13	7	<1	14	<1	<1	16

Table 6: Section 1 Breakdown of Daily Construction by Access and Vehicle Type

Access Point	Section	All Vehicles	All Vehicles Two Way	Lights	HGV	HGV%
RDX001P	1	27	54	27	27	49%
RDX002P	1	23	46	21	25	54%
RDX003P	1	11	22	7	15	70%
RDX004P	1	<1	<1	<1	<1	<1%
RDX005P	1	24	48	20	28	59%
RDX006P	1	<1	<1	<1	<1	<1%
RDX007P	1	<1	<1	<1	<1	<1%
RDX008P	1	26	52	20	32	62%

2.3 Section 2 Construction Traffic Flows

2.3.1 Based upon information developed for the project the vehicle movements across each of the access points have been identified. **Table 7** to **Table 10** outline the following,

- **Table 7** - Daily construction vehicles at each access point based on the start and end date;
- **Table 8** - Daily Construction Vehicles by Access Point, Daily Construction HGVs by Access Point;
- **Table 9** - Breakdown of Daily Construction by Access and Vehicle Type; and
- **Table 10**: Section 2 Breakdown of Daily Construction by Access and Vehicle Type.

Table 7: Section 2 Total Construction Vehicles by Access Point

Construction Activity	RDX009P	RDX010P	RLX002P	RDX011P	DX022P	RDX012P	RDX013P	RDX014P	RDX015P	RDX016P
Project Management		129		129		129	129		129	129
Project Support Services		847		847		847			847	847
Emergency Crew		27		27		27	27		27	27
Erosion Control / Environmental		40		40		40	40		40	40
Set Out RoW Fencing, Pipeline Centreline and As-built		26		26		26	26		26	26
RoW Access		53		53		53			53	53
Right of Way Fencing		31		31		31			31	31
Stoned Hard Standings, and Roads including Reinstatement		754		754		754			754	754
Laydown, Welfare and Parking Areas		12		12		12			12	12
Welfare and Parking Areas	-	-	-	-	-	-	-	-	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-	-	-
Topsoil Strip		50		50		50			50	50
Load-out - Haul and String (2 Pipes/Load)		210		315		549			309	
Field Bending		29		29		29			29	29
End Prep Crew		45		45		45			45	45
Mainline Welding		136		136		136			136	136
Poor Boy/Pre-Fabrication Crew		87		87		87			87	87
Non-Destructive Testing (NDT)		79		79		79			79	79
Field Joint Coating		105		105		105			105	105
Trenching		47		47		47			47	47
Bedding & Padding		138		138		138			138	138
Lowering-in		70		70		70			70	70
Open-cut Crossings		60		60		60			60	60

Construction Activity	RDX009P	RDX010P	RLX002P	RDX011P	DX022P	RDX012P	RDX013P	RDX014P	RDX015P	RDX016P
Pre-cast Concrete Slabs		4		4		4	4		4	4
Tie-in Crews		105		105		105			105	105
Cathodic Protection		47		47		47			47	47
Backfill		37		37		37			37	37
Reinstatement		55		55		55			55	55
Marker Posts		16		16		16			16	16
Hedge Reinstatement		14		14		14			14	14
Roads - Tarmac Repair/Resurfacing		5		5		5	5		5	5
Horizontal Directional Drilling		378		378		378				
Auger Crossings		275		275		275			275	275
Micro tunnel	-	-	-	-	-	-	-	-	-	-
Clean and Gauge						124				
Hydro test (Filling, Testing & Bulk Dewatering)						271				
Dew Point Drying	-	-	-	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey		9		9		9	9		9	9
Block Valves - Installation and Fit Out									690	
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-
Totals	-	3,919	-	4,023	-	4,653	240	-	4,330	3,331

Table 8: Section 2 Daily Construction Vehicles by Access Point

Construction Activity	RDX009P	RDX010P	RLX002P	RDX011P	DX022P	RDX012P	RDX013P	RDX014P	RDX015P	RDX016P
Project Management	-	<1	-	<1	-	<1	<1	-	<1	<1
Project Support Services	-	3	-	3	-	3	-	-	3	3
Emergency Crew	-	<1	-	<1	-	<1	<1	-	<1	<1
Erosion Control / Environmental	-	<1	-	<1	-	<1	<1	-	<1	<1
Set Out RoW Fencing, Pipeline Centreline and As-built	-	<1	-	<1	-	<1	<1	-	<1	<1
RoW Access	-	<1	-	<1	-	<1	-	-	<1	<1
Right of Way Fencing	-	<1	-	<1	-	<1	-	-	<1	<1
Stoned Hard Standings, and Roads including Reinstate	-	3	-	3	-	3	-	-	3	3
Laydown, Welfare and Parking Areas	-	<1	-	<1	-	<1	-	-	<1	<1
Welfare and Parking Areas	-	-	-	-	-	-	-	-	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-	-	-
Topsoil Strip	-	<1	-	<1	-	<1	-	-	<1	<1
Load-out - Haul and String (2 Pipes/Load)	-	1	-	2	-	4	-	-	2	-
Field Bending	-	<1	-	<1	-	<1	-	-	<1	<1
End Prep Crew	-	<1	-	<1	-	<1	-	-	<1	<1
Mainline Welding	-	1	-	1	-	1	-	-	1	1

Construction Activity	RDX009P	RDX010P	RLX002P	RDX011P	DX022P	RDX012P	RDX013P	RDX014P	RDX015P	RDX016P
Poor Boy/Pre-Fabrication Crew	-	1	-	1	-	1	-	-	1	1
Non-Destructive Testing (NDT)	-	<1	-	<1	-	<1	-	-	<1	<1
Field Joint Coating	-	1	-	1	-	1	-	-	1	1
Trenching	-	<1	-	<1	-	<1	-	-	<1	<1
Bedding & Padding	-	1	-	1	-	1	-	-	1	1
Lowering-in	-	<1	-	<1	-	<1	-	-	<1	<1
Open-cut Crossings	-	<1	-	<1	-	<1	-	-	<1	<1
Pre-cast Concrete Slabs	-	<1	-	<1	-	<1	<1	-	<1	<1
Tie-in Crews	-	1	-	1	-	1	-	-	1	1
Cathodic Protection	-	<1	-	<1	-	<1	-	-	<1	<1
Backfill	-	<1	-	<1	-	<1	-	-	<1	<1
Reinstatement	-	<1	-	<1	-	<1	-	-	<1	<1
Marker Posts	-	<1	-	<1	-	<1	-	-	<1	<1
Hedge Reinstatement	-	<1	-	<1	-	<1	-	-	<1	<1
Roads - Tarmac Repair/Resurfacing	-	<1	-	<1	-	<1	<1	-	<1	<1
Horizontal Directional Drilling	-	2	-	2	-	2	-	-	-	-
Auger Crossings	-	2	-	2	-	2	-	-	2	2
Micro tunnel	-	-	-	-	-	-	-	-	-	-
Clean and Gauge	-	-	-	-	-	1	-	-	-	-
Hydro test (Filling, Testing & Bulk Dewatering)	-	-	-	-	-	4	-	-	-	-

Construction Activity	RDX009P	RDX010P	RLX002P	RDX011P	DX022P	RDX012P	RDX013P	RDX014P	RDX015P	RDX016P
Dew Point Drying	-	-	-	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey	-	<1	-	<1	-	<1	<1	-	<1	<1
Block Valves - Installation and Fit Out	-	-	-	-	-	-	-	-	4	-
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-
Totals	-	21	-	21	-	28	1	-	23	17
Totals with 20% uplift	-	25	-	26	-	34	1	-	28	20

Table 9: Section 2 Daily Construction HGVs by Access Point

Construction Activity	RDX009P	RDX010P	RLX002P	RDX011P	DX022P	RDX012P	RDX013P	RDX014P	RDX015P	RDX016P
Project Management	-	<1	-	<1	-	<1	<1	-	<1	<1
Project Support Services	-	2	-	2	-	2	-	-	2	2
Emergency Crew	-	<1	-	<1	-	<1	<1	-	<1	<1
Erosion Control / Environmental	-	<1	-	<1	-	<1	<1	-	<1	<1
Set Out RoW Fencing, Pipeline Centreline and As-built	-	-	-	-	-	-	-	-	-	-
RoW Access	-	<1	-	<1	-	<1	-	-	<1	<1
Right of Way Fencing	-	<1	-	<1	-	<1	-	-	<1	<1
Stoned Hard Standings, and Roads including Reinstatement	-	3	-	3	-	3	-	-	3	3
Laydown, Welfare and Parking Areas	-	<1	-	<1	-	<1	-	-	<1	<1
Welfare and Parking Areas	-	-	-	-	-	-	-	-	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-	-	-
Topsoil Strip	-	<1	-	<1	-	<1	-	-	<1	<1
Load-out - Haul and String (2 Pipes/Load)	-	1	-	2	-	3	-	-	2	-
Field Bending	-	<1	-	<1	-	<1	-	-	<1	<1
End Prep Crew	-	<1	-	<1	-	<1	-	-	<1	<1

Construction Activity	RDX009P	RDX010P	RLX002P	RDX011P	DX022P	RDX012P	RDX013P	RDX014P	RDX015P	RDX016P
Mainline Welding	-	<1	-	<1	-	<1	-	-	<1	<1
Poor Boy/Pre-Fabrication Crew	-	<1	-	<1	-	<1	-	-	<1	<1
Non-Destructive Testing (NDT)	-	<1	-	<1	-	<1	-	-	<1	<1
Field Joint Coating	-	<1	-	<1	-	<1	-	-	<1	<1
Trenching	-	<1	-	<1	-	<1	-	-	<1	<1
Bedding & Padding	-	1	-	1	-	1	-	-	1	1
Lowering-in	-	<1	-	<1	-	<1	-	-	<1	<1
Open-cut Crossings	-	<1	-	<1	-	<1	-	-	<1	<1
Pre-cast Concrete Slabs	-	<1	-	<1	-	<1	<1	-	<1	<1
Tie-in Crews	-	<1	-	<1	-	<1	-	-	<1	<1
Cathodic Protection	-	<1	-	<1	-	<1	-	-	<1	<1
Backfill	-	<1	-	<1	-	<1	-	-	<1	<1
Reinstatement	-	<1	-	<1	-	<1	-	-	<1	<1
Marker Posts	-	<1	-	<1	-	<1	-	-	<1	<1
Hedge Reinstatement	-	<1	-	<1	-	<1	-	-	<1	<1
Roads - Tarmac Repair/Resurfacing	-	<1	-	<1	-	<1	<1	-	<1	<1
Horizontal Directional Drilling	-	1	-	1	-	1	-	-	-	-
Auger Crossings	-	1	-	1	-	1	-	-	1	1
Micro tunnel	-	-	-	-	-	-	-	-	-	-
Clean and Gauge	-	-	-	-	-	<1	-	-	-	-

Construction Activity	RDX009P	RDX010P	RLX002P	RDX011P	DX022P	RDX012P	RDX013P	RDX014P	RDX015P	RDX016P
Hydro test (Filling, Testing & Bulk Dewatering)	-	-	-	-	-	3	-	-	-	-
Dew Point Drying	-	-	-	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey	-	-	-	-	-	-	-	-	-	-
Block Valves - Installation and Fit Out	-	-	-	-	-	-	-	-	2	-
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-
Totals	-	13	-	13	-	18	<1	-	14	10
Totals with 20% uplift	-	15	-	16	-	21	<1	-	16	12

Table 10: Section 2 Breakdown of Daily Construction by Access and Vehicle Type

Access	Section	All Vehicles	Two Way	Lights	HGV	HGV%
RDX009P	2	<1	<1	<1	<1	<1%
RDX010P	2	25	50	20	30	60%
RLX002P	2	<1	<1	<1	<1	<1%
RDX011P	2	26	52	20	32	61%
RDX012P	2	34	68	25	43	63%
RDX013P	2	1	2	2	<1	19%
RDX014P	2	<1	<1	<1	<1	<1%
RDX015P	2	28	56	23	33	58%
RDX016P	2	20	40	17	23	59%

2.4 Section 3 Construction Traffic Flows

2.4.1 Based upon information developed for the project the vehicle movements across each of the access points have been identified. **Table 11** to **Table 14** outline the following, with the

- **Table 11-** Daily construction vehicles at each access point based on the start and end date;
- **Table 12-** Daily Construction Vehicles by Access Point, Daily Construction HGVs by Access Point;
- **Table 13 -** Breakdown of Daily Construction by Access and Vehicle Type; and
- **Table 14:** Section 3 Breakdown of Daily Construction by Access and Vehicle Type.

Table 11: Section 3 Total Construction Vehicles by Access Point

Construction Activity	RDX017P	RDX018P	RDX019P	RDX020P	RDX021P	RDX022P	RDX023P	RDX024P	RDX025P	RDX026P	RDX027P	RDX028P	RDX029P	RDX030P	RDX031P
Project Management	129	129		129	129	129	129		129			129		129	129
Project Support Services	847			847					847						847
Emergency Crew	27	27		27	27	27	27		27			27		27	27
Erosion Control / Environmental	40	40		40	40	40	40		40			40		40	40
Set Out RoW Fencing, Pipeline Centreline and As-built	26	26		26	26	26	26		26			26		26	26
RoW Access	53			53					53						53
Right of Way Fencing	31			31					31						31
Stoned Hard Standings, and Roads including Reinstatement	754			754			754		754			754			754
Laydown, Welfare and Parking Areas	12			12					12						12
Welfare and Parking Areas							6					6			
Bridges Install & Remove															
Topsoil Strip	50			50					50						50
Load-out - Haul and String (2 Pipes/Load)	323			908					851						850
Field Bending	29			29					29						29
End Prep Crew	45			45					45						45
Mainline Welding	136			136					136						136
Poor Boy/Pre-Fabrication Crew	87			87					87						87
Non-Destructive Testing (NDT)	79			79					79						79
Field Joint Coating	105			105					105						105
Trenching	47			47					47						47
Bedding & Padding	138			138					138						138
Lowering-in	70			70					70						70
Open-cut Crossings	60			60					60						60
Pre-cast Concrete Slabs	4			4					4						4
Tie-in Crews	105			105					105						105
Cathodic Protection	47			47					47						47
Backfill	37			37					37						37
Reinstatement	55			55					55						55
Marker Posts	16			16					16						16
Hedge Reinstatement	14			14					14						14
Roads - Tarmac Repair/Resurfacing	5	5		5	5	5	5		5			5		5	5

Construction Activity	RDX017P	RDX018P	RDX019P	RDX020P	RDX021P	RDX022P	RDX023P	RDX024P	RDX025P	RDX026P	RDX027P	RDX028P	RDX029P	RDX030P	RDX031P
Horizontal Directional Drilling															
Auger Crossings	275			275					275						275
Micro tunnel															
Clean and Gauge				124											124
Hydro test (Filling, Testing & Bulk Dewatering)				271											271
Dew Point Drying															
Pearson/DCVG/CIPS Coating Survey	9	9		9	9	9	9		9			9		9	9
Block Valves - Installation and Fit Out						690									
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	3,654	236	-	4,634	236	925	996	-	4,182	-	-	996	-	236	4,576

Table 12: Section 3 Daily Construction Vehicles by Access Point

Construction Activity	RDX017P	RDX018P	RDX019P	RDX020P	RDX021P	RDX022P	RDX023P	RDX024P	RDX025P	RDX026P	RDX027P	RDX028P	RDX029P	RDX030P	RDX031P
Project Management	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
Project Support Services	3	-	-	3	-	-	-	-	3	-	-	-	-	-	3
Emergency Crew	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
Erosion Control / Environmental	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
Set Out RoW Fencing, Pipeline Centreline and As-built	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
RoW Access	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Right of Way Fencing	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Stoned Hard Standings, and Roads including Reinstatement	3	-	-	3	-	-	3	-	3	-	-	3	-	-	3
Laydown, Welfare and Parking Areas	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Welfare and Parking Areas	-	-	-	-	-	-	<1	-	-	-	-	<1	-	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Topsoil Strip	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Load-out - Haul and String (2 Pipes/Load)	2	-	-	6	-	-	-	-	6	-	-	-	-	-	6
Field Bending	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
End Prep Crew	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Mainline Welding	1	-	-	1	-	-	-	-	1	-	-	-	-	-	1
Poor Boy/Pre-Fabrication Crew	1	-	-	1	-	-	-	-	1	-	-	-	-	-	1
Non-Destructive Testing (NDT)	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Field Joint Coating	1	-	-	1	-	-	-	-	1	-	-	-	-	-	1
Trenching	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Bedding & Padding	1	-	-	1	-	-	-	-	1	-	-	-	-	-	1
Lowering-in	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Open-cut Crossings	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Pre-cast Concrete Slabs	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Tie-in Crews	1	-	-	1	-	-	-	-	1	-	-	-	-	-	1
Cathodic Protection	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Backfill	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Reinstatement	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Marker Posts	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Hedge Reinstatement	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Roads - Tarmac Repair/Resurfacing	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1

Construction Activity	RDX017P	RDX018P	RDX019P	RDX020P	RDX021P	RDX022P	RDX023P	RDX024P	RDX025P	RDX026P	RDX027P	RDX028P	RDX029P	RDX030P	RDX031P
Horizontal Directional Drilling	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Auger Crossings	2	-	-	2	-	-	-	-	2	-	-	-	-	-	2
Micro tunnel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clean and Gauge	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Hydro test (Filling, Testing & Bulk Dewatering)	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4
Dew Point Drying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
Block Valves - Installation and Fit Out	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-Totals	19	1	-	28	1	5	4	-	23	-	-	4	-	1	28
Total with 20% uplift	23	1	-	34	1	6	5	-	27	-	-	5	-	1	33

Table 13: Section 3 Daily Construction HGVs by Access Point

Construction Activity	RDX017P	RDX018P	RDX019P	RDX020P	RDX021P	RDX022P	RDX023P	RDX024P	RDX025P	RDX026P	RDX027P	RDX028P	RDX029P	RDX030P	RDX031P
Project Management	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
Project Support Services	2	-	-	2	-	-	-	-	2	-	-	-	-	-	2
Emergency Crew	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
Erosion Control / Environmental	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
Set Out RoW Fencing, Pipeline Centreline and As-built	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RoW Access	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Right of Way Fencing	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Stoned Hard Standings, and Roads including Reinstatement	3	-	-	3	-	-	3	-	3	-	-	3	-	-	3
Laydown, Welfare and Parking Areas	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Welfare and Parking Areas	-	-	-	-	-	-	<1	-	-	-	-	<1	-	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Topsoil Strip	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Load-out - Haul and String (2 Pipes/Load)	2	-	-	5	-	-	-	-	5	-	-	-	-	-	5
Field Bending	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
End Prep Crew	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Mainline Welding	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Poor Boy/Pre-Fabrication Crew	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Non-Destructive Testing (NDT)	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Field Joint Coating	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Trenching	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Bedding & Padding	1	-	-	1	-	-	-	-	1	-	-	-	-	-	1
Lowering-in	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Open-cut Crossings	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Pre-cast Concrete Slabs	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Tie-in Crews	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Cathodic Protection	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Backfill	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Reinstatement	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1

Construction Activity	RDX017P	RDX018P	RDX019P	RDX020P	RDX021P	RDX022P	RDX023P	RDX024P	RDX025P	RDX026P	RDX027P	RDX028P	RDX029P	RDX030P	RDX031P
Marker Posts	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Hedge Reinstatement	<1	-	-	<1	-	-	-	-	<1	-	-	-	-	-	<1
Roads - Tarmac Repair/Resurfacing	<1	<1	-	<1	<1	<1	<1	-	<1	-	-	<1	-	<1	<1
Horizontal Directional Drilling	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Auger Crossings	1	-	-	1	-	-	-	-	1	-	-	-	-	-	1
Micro tunnel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clean and Gauge	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	<1
Hydro test (Filling, Testing & Bulk Dewatering)	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3
Dew Point Drying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Block Valves - Installation and Fit Out	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	12	<1	-	19	<1	2	3	-	15	-	-	3	-	<1	18
Total with 20% uplift	14	<1	-	22	<1	2	4	-	18	-	-	4	-	<1	22

Table 14: Section 3 Breakdown of Daily Construction by Access and Vehicle Type

Access	Section	All Vehicles	Two Way	Lights	HGV	HGV%
RDX017P	3	23	46	18	28	62%
RDX018P	3	1	2	2	<1	15%
RDX019P	3	<1	<1	<1	<1	<1%
RDX020P	3	34	68	23	45	66%
RDX021P	3	1	2	2	<1	15%
RDX022P	3	6	12	7	5	39%
RDX023P	3	5	10	2	8	78%
RDX024P	3	<1	<1	<1	<1	<1%
RDX025P	3	27	54	18	36	66%
RDX026P	3	<1	<1	<1	<1	<1%
RDX027P	3	<1	<1	<1	<1	<1%
RDX028P	3	5	10	2	8	78%
RDX029P	3	<1	<1	<1	<1	<1%
RDX030P	3	1	2	2	<1	15%
RDX031P	3	33	66	23	43	65%

2.5 Section 4 Construction Traffic Flows

2.5.1 Based upon information developed for the project the vehicle movements across each of the access points have been identified. **Table 15** to **Table 18** outline the following,

- **Table 15** - daily construction vehicles at each access point based on the start and end date;
- **Table 16** - Daily Construction Vehicles by Access Point, Daily Construction HGVs by Access Point;
- **Table 17**- Breakdown of Daily Construction by Access and Vehicle Type; and
- **Table 18**: Section 4 Breakdown of Daily Construction by Access and Vehicle Type

Table 15: Section 4 Total Construction Vehicles by Access Point

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
Project Management	129	129	129	129		129	129	129	129	129	129
Project Support Services				847		847					847
Emergency Crew	27	27	27	27		27	27	27	27	27	27
Erosion Control / Environmental	40	40	40	40		40	40	40	40	40	40
Set Out RoW Fencing, Pipeline Centreline and As-built	26	26	26	26		26	26	26	26	26	26
RoW Access				53		53					53
Right of Way Fencing				31		31					31
Stoned Hard Standings, and Roads including Reinstall		754		754		754			754		754
Laydown, Welfare and Parking Areas				12		12					12
Welfare and Parking Areas		6							6		
Bridges Install & Remove											
Topsoil Strip				50		50					50
Load-out - Haul and String (2 Pipes/Load)				524		580					575
Field Bending				29		29					29

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
End Prep Crew				45		45					45
Mainline Welding				136		136					136
Poor Boy/Pre-Fabrication Crew				87		87					87
Non-Destructive Testing (NDT)				79		79					79
Field Joint Coating				105		105					105
Trenching				47		47					47
Bedding & Padding				138		138					138
Lowering-in				70		70					70
Open-cut Crossings				60		60					60
Pre-cast Concrete Slabs				4		4					4
Tie-in Crews				105		105					105
Cathodic Protection				47		47					47
Backfill				37		37					37
Reinstatement				55		55					55
Marker Posts				16		16					16
Hedge Reinstatement				14		14					14
Roads - Tarmac Repair/Resurfacing	5	5	5	5		5	5	5	5	5	5
Horizontal Directional Drilling				378		378					
Auger Crossings				275		275					275
Micro tunnel											
Clean and Gauge											124

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
Hydro test (Filling, Testing & Bulk Dewatering)											271
Dew Point Drying											
Pearson/DCVG/CIPS Coating Survey	9	9	9	9		9	9	9	9	9	9
Block Valves - Installation and Fit Out				690							
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-	-
Totals	236	996	236	4,923	-	4,289	236	236	996	236	4,302

Table 16: Section 4 Daily Construction Vehicles by Access Point

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
Project Management	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Project Support Services	-	-	-	3	-	3	-	-	-	-	3
Emergency Crew	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Erosion Control / Environmental	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Set Out RoW Fencing, Pipeline Centreline and As-built	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
RoW Access	-	-	-	<1	-	<1	-	-	-	-	<1
Right of Way Fencing	-	-	-	<1	-	<1	-	-	-	-	<1
Stoned Hard Standings, and Roads including Reinstall	-	3	-	3	-	3	-	-	3	-	3
Laydown, Welfare and Parking Areas	-	-	-	<1	-	<1	-	-	-	-	<1
Welfare and Parking Areas	-	<1	-	-	-	-	-	-	<1	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-	-	-	-
Topsoil Strip	-	-	-	<1	-	<1	-	-	-	-	<1
Load-out - Haul and String (2 Pipes/Load)	-	-	-	3	-	4	-	-	-	-	4
Field Bending	-	-	-	<1	-	<1	-	-	-	-	<1

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
End Prep Crew	-	-	-	<1	-	<1	-	-	-	-	<1
Mainline Welding	-	-	-	1	-	1	-	-	-	-	1
Poor Boy/Pre-Fabrication Crew	-	-	-	1	-	1	-	-	-	-	1
Non-Destructive Testing (NDT)	-	-	-	<1	-	<1	-	-	-	-	<1
Field Joint Coating	-	-	-	1	-	1	-	-	-	-	1
Trenching	-	-	-	<1	-	<1	-	-	-	-	<1
Bedding & Padding	-	-	-	1	-	1	-	-	-	-	1
Lowering-in	-	-	-	<1	-	<1	-	-	-	-	<1
Open-cut Crossings	-	-	-	<1	-	<1	-	-	-	-	<1
Pre-cast Concrete Slabs	-	-	-	<1	-	<1	-	-	-	-	<1
Tie-in Crews	-	-	-	1	-	1	-	-	-	-	1
Cathodic Protection	-	-	-	<1	-	<1	-	-	-	-	<1
Backfill	-	-	-	<1	-	<1	-	-	-	-	<1
Reinstatement	-	-	-	<1	-	<1	-	-	-	-	<1
Marker Posts	-	-	-	<1	-	<1	-	-	-	-	<1
Hedge Reinstatement	-	-	-	<1	-	<1	-	-	-	-	<1
Roads - Tarmac Repair/Resurfacing	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Horizontal Directional Drilling	-	-	-	2	-	2	-	-	-	-	-
Auger Crossings	-	-	-	2	-	2	-	-	-	-	2
Micro tunnel	-	-	-	-	-	-	-	-	-	-	-
Clean and Gauge	-	-	-	-	-	-	-	-	-	-	1

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
Hydro test (Filling, Testing & Bulk Dewatering)	-	-	-	-	-	-	-	-	-	-	4
Dew Point Drying	-	-	-	-	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Block Valves - Installation and Fit Out	-	-	-	4	-	-	-	-	-	-	-
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-	-
Totals	1	4	1	27	-	23	1	1	4	1	26
Total with 20% uplift	1	5	1	32	-	28	1	1	5	1	31

Table 17: Section 4 Daily Construction HGVs by Access Point

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
Project Management	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Project Support Services	-	-	-	2	-	2	-	-	-	-	2
Emergency Crew	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Erosion Control / Environmental	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Set Out RoW Fencing, Pipeline Centreline and As-built	-	-	-	-	<1	<1	-	-	-	-	-
RoW Access	-	-	-	<1	-	<1	-	-	-	-	<1
Right of Way Fencing	-	-	-	<1	-	<1	-	-	-	-	<1
Stoned Hard Standings, and Roads including Reinstall	-	3	-	3	-	3	-	-	3	-	3
Laydown, Welfare and Parking Areas	-	-	-	<1	-	<1	-	-	-	-	<1
Welfare and Parking Areas	-	<1	-	-	-	-	-	-	<1	-	-
Bridges Install & Remove	-	-	-	-	-	-	-	-	-	-	-
Topsoil Strip	-	-	-	<1	-	<1	-	-	-	-	<1
Load-out - Haul and String (2 Pipes/Load)	-	-	-	3	-	3	-	-	-	-	3
Field Bending	-	-	-	<1	-	<1	-	-	-	-	<1

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
End Prep Crew	-	-	-	<1	-	<1	-	-	-	-	<1
Mainline Welding	-	-	-	<1	-	<1	-	-	-	-	<1
Poor Boy/Pre-Fabrication Crew	-	-	-	<1	-	<1	-	-	-	-	<1
Non-Destructive Testing (NDT)	-	-	-	<1	-	<1	-	-	-	-	<1
Field Joint Coating	-	-	-	<1	-	<1	-	-	-	-	<1
Trenching	-	-	-	<1	-	<1	-	-	-	-	<1
Bedding & Padding	-	-	-	1	-	1	-	-	-	-	1
Lowering-in	-	-	-	<1	-	<1	-	-	-	-	<1
Open-cut Crossings	-	-	-	<1	-	<1	-	-	-	-	<1
Pre-cast Concrete Slabs	-	-	-	<1	-	<1	-	-	-	-	<1
Tie-in Crews	-	-	-	<1	-	<1	-	-	-	-	<1
Cathodic Protection	-	-	-	<1	-	<1	-	-	-	-	<1
Backfill	-	-	-	<1	-	<1	-	-	-	-	<1
Reinstatement	-	-	-	<1	-	<1	-	-	-	-	<1
Marker Posts	-	-	-	<1	-	<1	-	-	-	-	<1
Hedge Reinstatement	-	-	-	<1	-	<1	-	-	-	-	<1
Roads - Tarmac Repair/Resurfacing	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
Horizontal Directional Drilling	-	-	-	1	-	1	-	-	-	-	-
Auger Crossings	-	-	-	1	-	1	-	-	-	-	1
Micro tunnel	-	-	-	-	-	-	-	-	-	-	-
Clean and Gauge	-	-	-	-	-	-	-	-	-	-	<1

Construction Activity	RDX032P	RDX033P	RDX034P	RDX035P	RDX036P	RDX037P	RDX038P	RDX039P	RDX040P	RDX041P	RDX042P
Hydro test (Filling, Testing & Bulk Dewatering)	-	-	-	-	-	-	-	-	-	-	3
Dew Point Drying	-	-	-	-	-	-	-	-	-	-	-
Pearson/DCVG/CIPS Coating Survey	-	-	-	-	-	-	-	-	-	-	-
Block Valves - Installation and Fit Out	-	-	-	2	-	-	-	-	-	-	-
Immingham and Theddlethorpe AGI's	-	-	-	-	-	-	-	-	-	-	-
Totals	<1	3	<1	16	-	15	<1	<1	3	<1	17
Total with 20% uplift	<1	4	<1	19	-	18	<1	<1	4	<1	20

Table 18: Section 4 Breakdown of Daily Construction by Access and Vehicle Type

Access	Section	All Vehicles	Two Way	Lights	HGV	HGV%
RDX032P	4	1	2	2	<1	15%
RDX033P	4	5	10	2	8	78%
RDX034P	4	1	2	2	<1	15%
RDX035P	4	32	64	26	38	60%
RDX036P	4	<1	<1	<1	<1	<1%
RDX037P	4	28	56	21	35	63%
RDX038P	4	1	2	2	<1	15%
RDX039P	4	1	2	2	<1	15%
RDX040P	4	5	10	2	8	78%
RDX041P	4	1	2	2	<1	15%
RDX042P	4	31	62	22	40	64%

2.6 Section 5 Construction Traffic Flows

2.6.1 Based upon information developed for the project the vehicle movements across each of the access points have been identified. **Table 19** to **Table 21** outline the following:

- Table 19 - daily construction vehicles at each access point based on the start and end date;
- Table 20 - Daily Construction Vehicles by Access Point, Daily Construction HGVs by Access Point; and
- Table 21 - Breakdown of Daily Construction by Access and Vehicle Type.

Table 19: Section 5 Total Construction Vehicles by Access Point

Construction Activity	RDX043P	RDX045P	RDX046P	TGT Access
Project Management	129	129	129	129
Project Support Services	847		847	847
Emergency Crew	27	53	27	
Erosion Control / Environmental	40	80	40	
Set Out RoW Fencing, Pipeline Centreline and As-built	26	52	26	
RoW Access	53		53	
Right of Way Fencing	31		31	
Stoned Hard Standings, and Roads including Reinstate	754	754	754	
Laydown, Welfare and Parking Areas	12		12	
Welfare and Parking Areas		6		

Construction Activity	RDX043P	RDX045P	RDX046P	TGT Access
Bridges Install & Remove	56	56		
Topsoil Strip	50		50	
Load-out - Haul and String (2 Pipes/Load)	627		482	
Field Bending	29		29	
End Prep Crew	45		45	
Mainline Welding	136		136	
Poor Boy/Pre-Fabrication Crew	87		87	
Non-Destructive Testing (NDT)	79		79	
Field Joint Coating	105		105	
Trenching	47		47	
Bedding & Padding	138		138	
Lowering-in	70		70	
Open-cut Crossings	60		60	
Pre-cast Concrete Slabs	4		4	
Tie-in Crews	105		105	
Cathodic Protection	47		47	
Backfill	37		37	
Reinstatement	55		55	
Marker Posts	16		16	
Hedge Reinstatement	14		14	
Roads - Tarmac Repair/Resurfacing	5	10	5	
Horizontal Directional Drilling	378	378		
Auger Crossings	275		275	
Micro tunnel				
Clean and Gauge				124
Hydro test (Filling, Testing & Bulk Dewatering)				271
Dew Point Drying			65	
Pearson/DCVG/CIPS Coating Survey	9	18	9	9
Block Valves - Installation and Fit Out			690	
Immingham and Theddlethorpe AGI's				270
Totals	4,391	1,537	4,568	1,650

Table 20: Section 5 Daily Construction Vehicles by Access Point

Construction Activity	RDX043P	RDX045P	RDX046P	TGT
Project Management	<1	<1	<1	<1
Project Support Services	3	-	3	3
Emergency Crew	<1	<1	<1	-
Erosion Control / Environmental	<1	<1	<1	-
Set Out RoW Fencing, Pipeline Centreline and As-built	<1	<1	<1	-
RoW Access	<1	-	<1	-
Right of Way Fencing	<1	-	<1	-
Stoned Hard Standings, and Roads including Reinstatement	3	3	3	-
Laydown, Welfare and Parking Areas	<1	-	<1	-
Welfare and Parking Areas	-	<1	-	-
Bridges Install & Remove	<1	<1	-	-
Topsoil Strip	<1	-	<1	-
Load-out - Haul and String (2 Pipes/Load)	4	-	3	-
Field Bending	<1	-	<1	-
End Prep Crew	<1	-	<1	-
Mainline Welding	1	-	1	-
Poor Boy/Pre-Fabrication Crew	1	-	1	-
Non-Destructive Testing (NDT)	<1	-	<1	-
Field Joint Coating	1	-	1	-
Trenching	<1	-	<1	-
Bedding & Padding	1	-	1	-
Lowering-in	<1	-	<1	-
Open-cut Crossings	<1	-	<1	-
Pre-cast Concrete Slabs	<1	-	<1	-
Tie-in Crews	1	-	1	-
Cathodic Protection	<1	-	<1	-
Backfill	<1	-	<1	-
Reinstatement	<1	-	<1	-
Marker Posts	<1	-	<1	-
Hedge Reinstatement	<1	-	<1	-
Roads - Tarmac Repair/Resurfacing	<1	<1	<1	-
Horizontal Directional Drilling	2	2	-	-
Auger Crossings	2	-	2	-
Micro tunnel	-	-	-	-
Clean and Gauge	-	-	-	1

Construction Activity	RDX043P	RDX045P	RDX046P	TGT
Hydro test (Filling, Testing & Bulk Dewatering)	-	-	-	4
Dew Point Drying	-	-	3	-
Pearson/DCVG/CIPS Coating Survey	<1	<1	<1	<1
Block Valves - Installation and Fit Out	-	-	4	-
Immingham and Theddlethorpe AGI's	-	-	-	1
Totals	24	8	28	9
Total with 20% uplift	29	9	33	11

Table 21: Section 5 Daily Construction HGVs by Access Point

Construction Activity	RDX043P	RDX045P	RDX046P	TGT
Project Management	<1	<1	<1	<1
Project Support Services	2	-	2	2
Emergency Crew	<1	<1	<1	-
Erosion Control / Environmental	<1	<1	<1	-
Set Out RoW Fencing, Pipeline Centreline and As-built	-	-	-	-
RoW Access	<1	-	<1	-
Right of Way Fencing	<1	-	<1	-
Stoned Hard Standings, and Roads including Reinstatement	3	3	3	-
Laydown, Welfare and Parking Areas	<1	-	<1	-
Welfare and Parking Areas	-	<1	-	-
Bridges Install & Remove	<1	<1	-	-
Topsoil Strip	<1	-	<1	-
Load-out - Haul and String (2 Pipes/Load)	4	-	3	-
Field Bending	<1	-	<1	-
End Prep Crew	<1	-	<1	-
Mainline Welding	<1	-	<1	-
Poor Boy/Pre-Fabrication Crew	<1	-	<1	-
Non-Destructive Testing (NDT)	<1	-	<1	-
Field Joint Coating	<1	-	<1	-
Trenching	<1	-	<1	-
Bedding & Padding	1	-	1	-
Lowering-in	<1	-	<1	-
Open-cut Crossings	<1	-	<1	-

Construction Activity	RDX043P	RDX045P	RDX046P	TGT
Pre-cast Concrete Slabs	<1	-	<1	-
Tie-in Crews	<1	-	<1	-
Cathodic Protection	<1	-	<1	-
Backfill	<1	-	<1	-
Reinstatement	<1	-	<1	-
Marker Posts	<1	-	<1	-
Hedge Reinstatement	<1	-	<1	-
Roads - Tarmac Repair/Resurfacing	<1	<1	<1	-
Horizontal Directional Drilling	1	1	-	-
Auger Crossings	1	-	1	-
Micro tunnel	-	-	-	-
Clean and Gauge	-	-	-	<1
Hydro test (Filling, Testing & Bulk Dewatering)	-	-	-	3
Dew Point Drying	-	-	<1	-
Pearson/DCVG/CIPS Coating Survey	-	-	-	-
Block Valves - Installation and Fit Out	-	-	2	-
Immingham and Theddlethorpe AGI's	-	-	-	1
Totals	15	5	15	6
Total with 20% uplift	18	6	18	7

Table 22: Section 5 Breakdown of Daily Construction by Access and Vehicle Type

	Section	All Vehicles	Two Way	Lights	HGV	HGV%
RDX043P	5	29	58	21	37	63%
RDX045P	5	9	18	6	12	66%
RDX046P	5	33	66	31	35	54%
TGT	5	11	22	8	14	64%

2.7 All Sections Daily Construction Traffic

2.7.1 **Table 23** shows the breakdown of vehicles within all route sections as shown in Section 12.5.16 (Table 12-9) in *ES Volume II Chapter 12 Traffic and Transport (Application Document 6.2.12)*. It is noted that those accesses which do not generate any traffic have been removed from this list but are included above for completeness.

Table 23: Access Points Daily Trip Generation

Access off	Section	All Vehicles One Way	Two Way	LGV Two Way*	HGV Two Way*	HGV%
RDX001P - Rosper Road	1	27	54	27	27	49%
RDX002P - Humber Road	1	23	46	21	25	54%
RDX003P - Manby Road	1	11	22	7	15	70%
RDX005P - A1173 Road RDX005P – A1173	1	24	48	20	28	59%
RDX008P - B1210 - Habrough Road	1	26	52	20	32	62%
RDX010P - Roxton Road	2	25	50	20	30	60%
RDX011P - Keelby Road RDX011P – Keelby Road	2	26	52	20	32	61%
RDX012P - A1173 Riby Road	2	34	68	25	43	63%
RDX013P - Wells Road	2	1	2	2	<1	19%
RDX015P -Washingdales Lane	2	28	56	23	33	58%
RDX016P - A46 Road	2	20	40	17	23	59%
RDX017P - Old Main Road	3	23	46	18	28	62%
RDX018P -Scrub Holt	3	1	2	2	<1	15%
RDX020P -Waltham Road	3	34	68	23	45	66%
RDX021P - Main Road	3	1	2	2	<1	15%
RDX022P -Thoroughfare	3	6	12	7	5	39%
RDX023P – Grainsby Lane	3	5	10	2	8	78%
RDX025P – Bond Croft Lane	3	27	54	18	36	66%
RDX028P – A16	3	5	10	2	8	78%
RDX030P – Station Road	3	1	2	2	<1	15%
RDX031P - Pear Tree Lane	3	33	66	23	43	65%
RDX032P - Ings Lane	4	1	2	2	<1	15%
RDX033P - Westfield Road	4	5	10	2	8	78%
RDX034P - Brackenborough Road	4	1	2	2	<1	15%
RDX035P - Louth Road	4	32	64	26	38	60%
RDX037P - Louth Road	4	28	56	20	36	63%
RDX038P - Mill Hill Way	4	1	2	2	<1	15%
RDX039P - Red Leans Lane	4	1	2	2	<1	15%
RDX040P - Marsh Lane	4	5	10	2	8	78%
RDX041P - Pick Hill Lane	4	1	2	2	<1	15%
RDX042P - B1200 - Manby Middlegate (road)	4	31	62	22	40	64%

Access off	Section	All Vehicles One Way	Two Way	LGV Two Way*	HGV Two Way*	HGV%
RDX043P -Thacker Bank (road)	5	29	58	21	37	63%
RDX045P - Mill Road	5	9	18	6	12	66%
RDX046P - A1031-Maplethorpe Road	5	33	66	31	35	54%
Former TGT access	5	11	22	8	14	2%
	Total	573	1146	456	690	59%

