

Summer Outage Plan Final Version

April 2024 – March 2027

28th March 2024

To Issue: 1.0

Version: Final



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1. Introduction

Each year National Gas Transmission undertakes a variety of maintenance and investment activities on the gas National Transmission System (NTS). This work can take many different forms, including keeping our assets in good working order, replacing ageing assets with new equipment, inspecting assets, and facilitating new connections and capacity requirements.

This outage programme is intended to provide an indication to the gas industry of the impact of these works on the NTS, and any associated impact on entry or exit capacity from April 2024 to March 2027. This programme supersedes all previous plans.

This document provides an overview of all work scheduled at NTS compressor stations and NTS pipelines. Where this work affects the capability at an Aggregate System Entry Point (ASEP), an indication of the revised ASEP's minimum daily capability is included for each month.

Although every effort is made to align work to any customer or associated asset outages which we have been made aware of, this is not always possible and where NTS Exit Points are affected, we will endeavour to issue Maintenance Day notices to our customers by 1st February and any revisions at least 42 days in advance of the scheduled Maintenance work.

This document only includes maintenance activities on the NTS which are to be undertaken by National Gas Transmission NTS. It does not include maintenance carried out upstream of the NTS by Delivery Facility Operators (DFOs) and Producers or downstream of the NTS by the Distribution Networks and other NTS connected parties.

We have introduced maps into this Outage Programme Draft to help our customers better understand the location of our maintenance activities – they should be viewed in conjunction with the Gantt charts as outages may not be taking place during the whole period of the map; outages are phased to avoid any entry and exit constraints. The maps are not geographically accurate but are a representation of the NTS. Please send any feedback to the changes in this document to NTSAccessPlanning@nationalgas.com; we will also be happy to talk individually to any impacted parties.

2. NTS Maintenance Work Monthly Summary

The following tables provide a summary of the NTS in line inspection work, other NTS pipeline work and NTS compressor outages. The month where the work is scheduled to take place has been highlighted in the tables. If it is the case that any work listed below has an effect on the flow of gas, affected sites and associated shippers will be contacted individually. The tables indicate which month the work takes place in, not that the work will take the whole of the month.

2.1 Planned In-Line Inspections

National Gas Transmission is required to carry out in-line inspections of our pipelines periodically in order to monitor and maintain their integrity, ensuring that they comply with the Pressure Systems Safety Regulations (PSSR). The in-line inspection process requires a number of Pipeline Inspection Gauges (PIGs) to travel through the pipeline in order to complete a full inspection. The number of “runs”, and the associated time taken for the work, can vary from pipeline to pipeline.

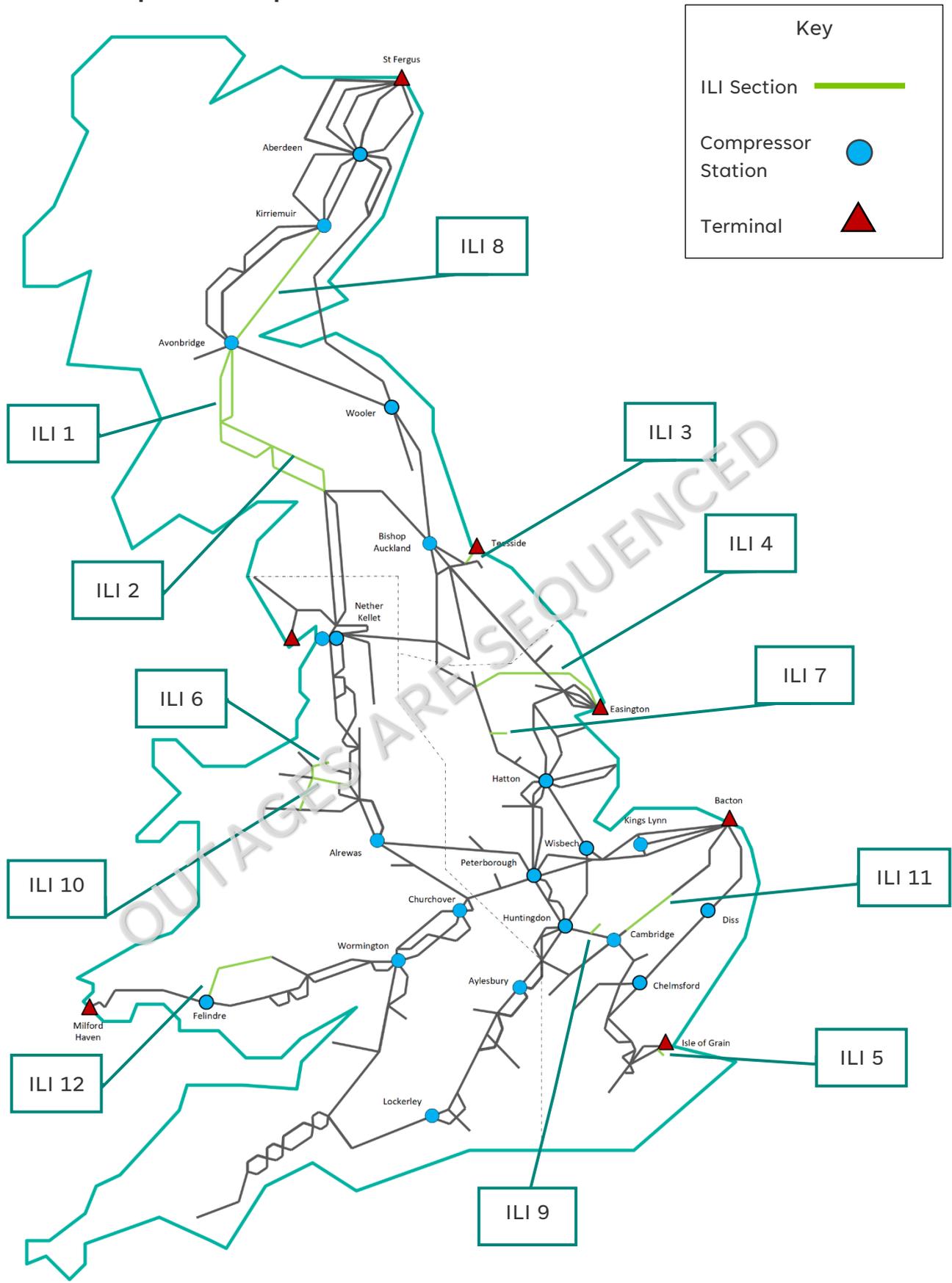
 = Confirmed period  = Provisional period EA = East WE = West SN = Scotland & North

Area	Ref N°	In Line Inspections	2024										2025				2026			
			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
SN	ILI 1	Feeder 11 Bathgate to Longtown																		
SN	ILI 2	Feeder 12 Bathgate to Longtown																		
SN	ILI 3	Feeder 6 Teesside to Cowpen Bewley																		
EA	ILI 4	Feeder 29 Easington to Asselby																		
EA	ILI 5	Feeder 5 Isle of Grain to Medway PS																		
WE	ILI 6	Feeder 4 Shocklach to Weston Point																		
EA	ILI 7	Feeder 7 Eastoft to Keadby PS																		

Area	Ref N°	In Line Inspections	2024										2025				2026			
			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
SN	ILI 8	Feeder 12 Kirriemuir to Bathgate																		
EA	ILI 9	Feeder 21 St Neots to Little Barford																		
WE	ILI 10	Feeder 21 Elworth to Mickle Trafford																		
EA	ILI 11	Feeder 3 Roundham Heath to Great Wilbraham																		
WE	ILI 12	Feeder 29 Felindre to Three Cocks																		
WE		Feeder 9 Barton Stacey to Lockerley																		
S&N		Feeder 13 Corbridge to Bishop Auckland																		
WE		Feeder 4 Helsby to Shellstar																		
EA		Feeder 18 Isle of Grain to Gravesend Thames South																		
EA		Feeder 18 Matching Green to Tilbury Thames North																		

Area	Ref N°	In Line Inspections	2024									2025				2026				
			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
WE		Feeder 21 Mawdesley to Warburton																		
EA		Feeder 2 Wisbech Nene West to Duddington																		
WE		Feeder 11 Grayrigg to Samlesbury																		
EA		Feeder 5 Isle of Grain to Shorne																		
EA		Feeder 4 Wisbech Nene West to Tixover																		

2024 In-Line Inspection Map



Key	
ILI Section	
Compressor Station	
Terminal	

OUTAGES ARE SEQUENCED

2.2 Pipeline Work

Pipeline work listed in this table below can include diversions of existing pipelines, facilitation of connections to the NTS, and replacement or maintenance of pipeline and associated assets (pipes, valves, pig traps etc.) which require some form of pressure restriction or isolation. Some work can be performed by restricting the pressure of gas in the pipeline; however some work requires a full shut down (often termed “isolation” or “outage”) of a section of the pipeline which would then be reinstated back to operational pressures once the work is completed. The 2025/26 and 2026/27 pipeline works are yet to be fully planned.

East Area

 = Pressure Restriction  = Pipeline Shutdown  = Provisional period

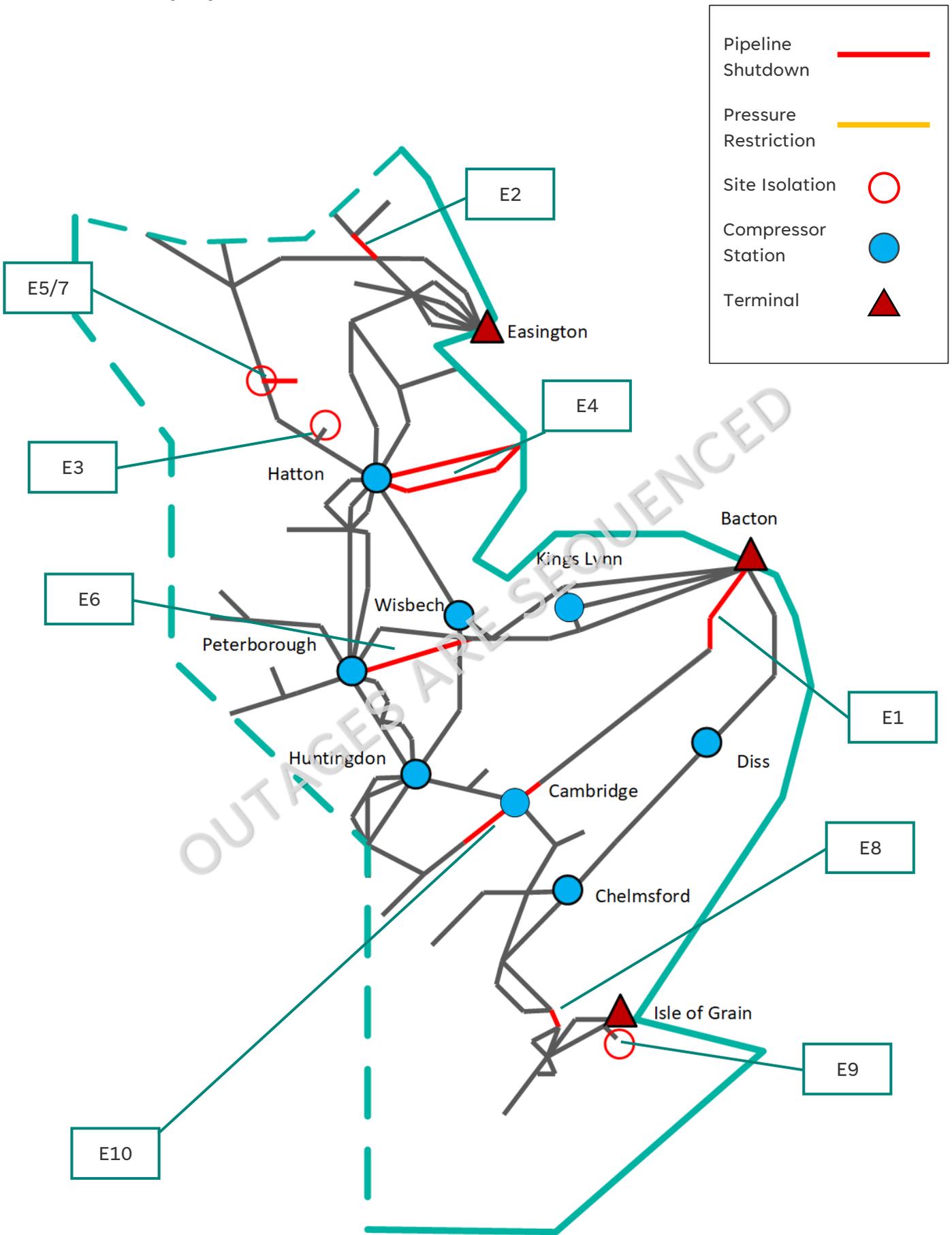
Ref N°	Pipeline	2024										2025				2026			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
E1	Feeder 3 Bacton to Rockland St Peter																		
E2	Feeder 6 Beeford to Ganstead																		
E3	Feeder 7 Brigg Power Station																		
E4	Feeder 7/18 Theddlethorpe to Hatton																		
E5	Feeder 7 Eastoft Local Isolation																		
E6	Feeder 2 Wisbech Nene West to Peterborough Tee																		
E7	Feeder 7 Eastoft to Keadby Power Station																		
E8	Feeder 18 Tilbury Thames North to Gravesend Thames South																		
E9	Feeder 18 Medway Power Station																		
E10	Feeder 3 Great Wilbraham to Royston																		
E11	Feeder 7 Tydd St Giles to Old Warden																		
E12	Feeder 3 Royston to Whitwell																		

Ref No°	Pipeline	2024										2025				2026			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
E13	Feeder 9 Silk Willoughby to Staythorpe																		
E14	Feeder 3/9 Whitwell Local Isolation																		
E15	Feeder 5 Gestingthorpe to Horndon & Stapleford Tawney																		
E16	Feeder 5 Stapleford Tawney to Luxborough Lane																		
E17	Feeder 9 Steppingley to Whitwell																		
E18	Feeder 7 Hatton to Tydd St Giles																		
E19	Feeder 2 Brisley to West Winch																		
	Feeder 29 Bacton to Kings Lynn Compressor Tee																		
	Feeder 2 Kings Lynn Compressor Tee to Setchey																		
	Feeder 4 Rougham to Saddlebow																		
	Feeder 5 Bacton to Yelverton																		
	Feeder 5 Yelverton to Braintree																		
	Feeder 6 Rosehill Tee																		
	Feeder 7 Eastoft to Susworth Trent West																		
	Feeder 7 Goole to Guardian Glass																		
	Feeder 22/9 Silk Willoughby to Peterborough Compressor Tee																		
	Feeder 9 Silk Willoughby to Staythorpe																		
	Feeder 24 Hatton to Silk Willoughby																		
	Feeder 2 Peterborough Tee to Eye																		
	Feeder 2 Peterborough Tee to Peterborough Power Station																		

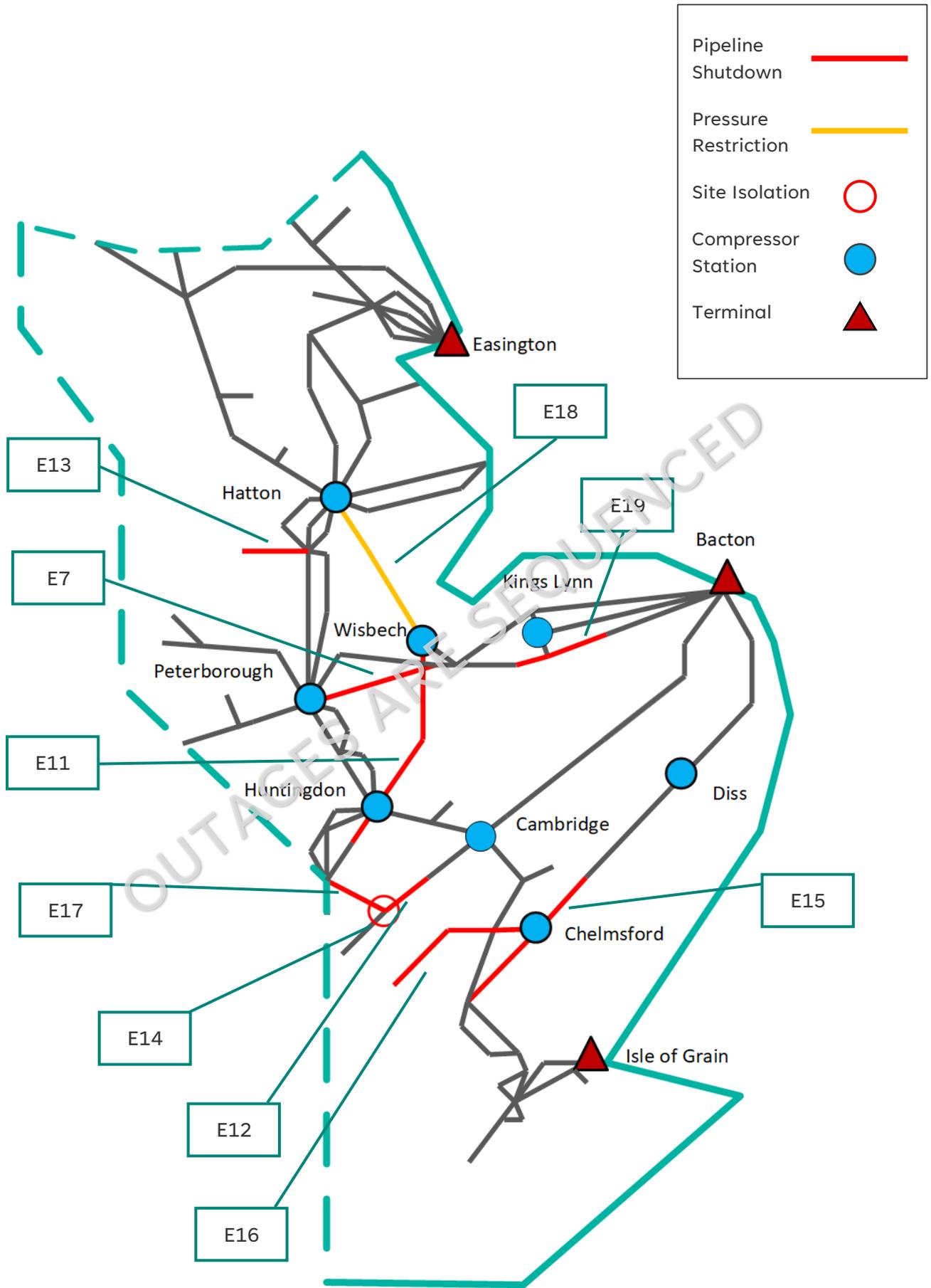
Ref No°	Pipeline	2024										2025				2026			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
	Feeder 5 Roxwell to Luxborough Lane																		
	Feeder 4 Saddlebow to Kings Lynn Power Station																		
	Feeder 5 Shorne to Isle of Grain																		
	Feeder 5 Isle of Grain to Medway Power Station																		
	Feeder 18/27 Matching Green																		
	Feeder 7 Asselby to Susworth Trent West																		
	Feeder 7 Chalgrove to Didcot Power Station																		
	Feeder 4 Wisbech Nene West to Peterborough Compressor Tee																		
	Feeder 18 Horndon to Tilbury Thames North																		
	Feeder 22 Goxhill to Hatton																		
	Feeder 8 Theddlethorpe to Hatton																		
	Feeder 3 Whitwell to Peter's Green																		
	Feeder 5 Gravesend to Tatsfield																		
	Feeder 9 Thornton Curtis																		

Please note: where a pipeline is required to be shut down the specific isolation points may differ from those displayed above. Any parties impacted by the works are contacted directly.

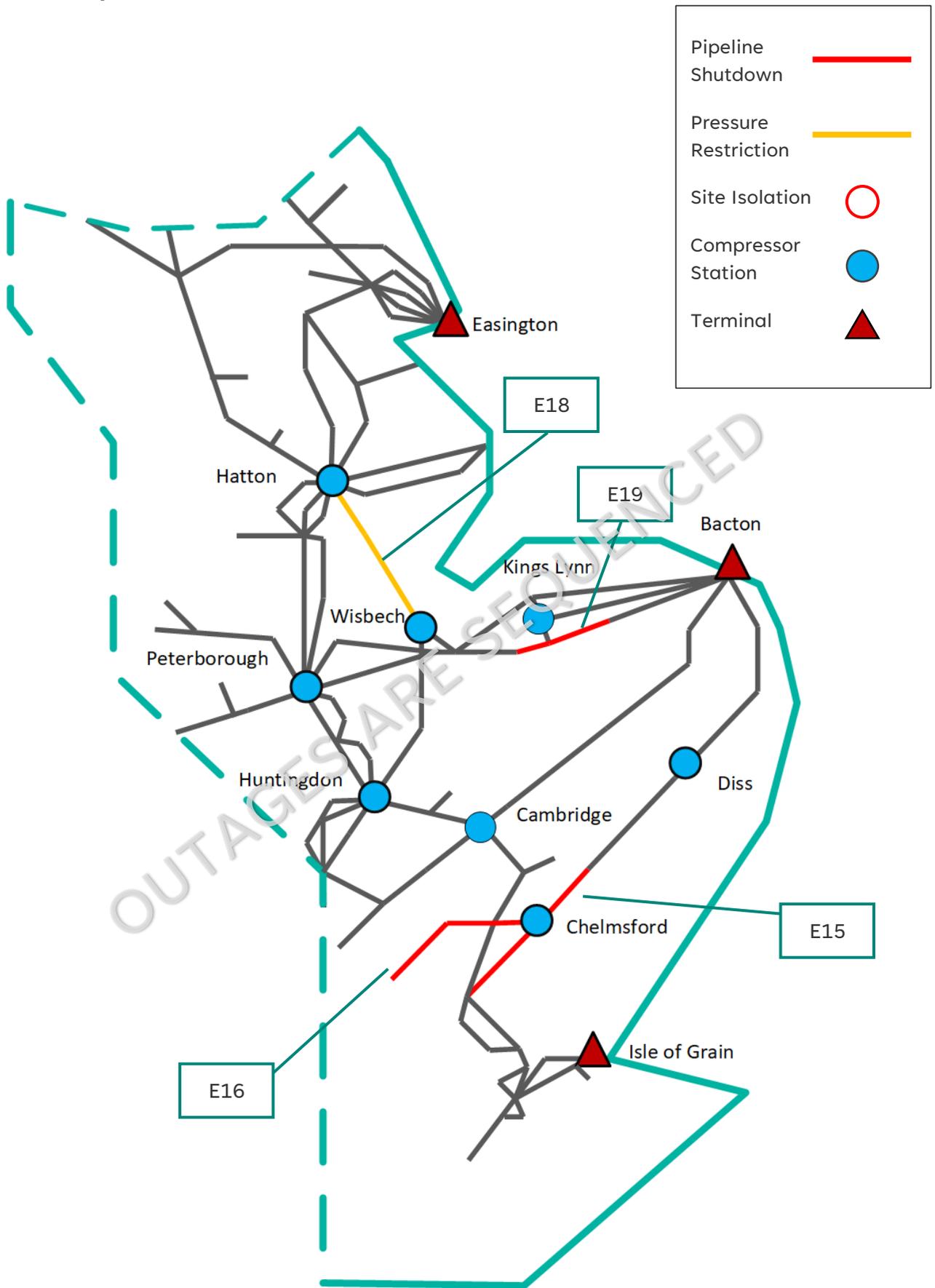
East Area Map April – June 2024



East Area Map July – September 2024



East Area Map October – December 2024



West Area

= Pressure Restriction

= Pipeline Shutdown

= Provisional period

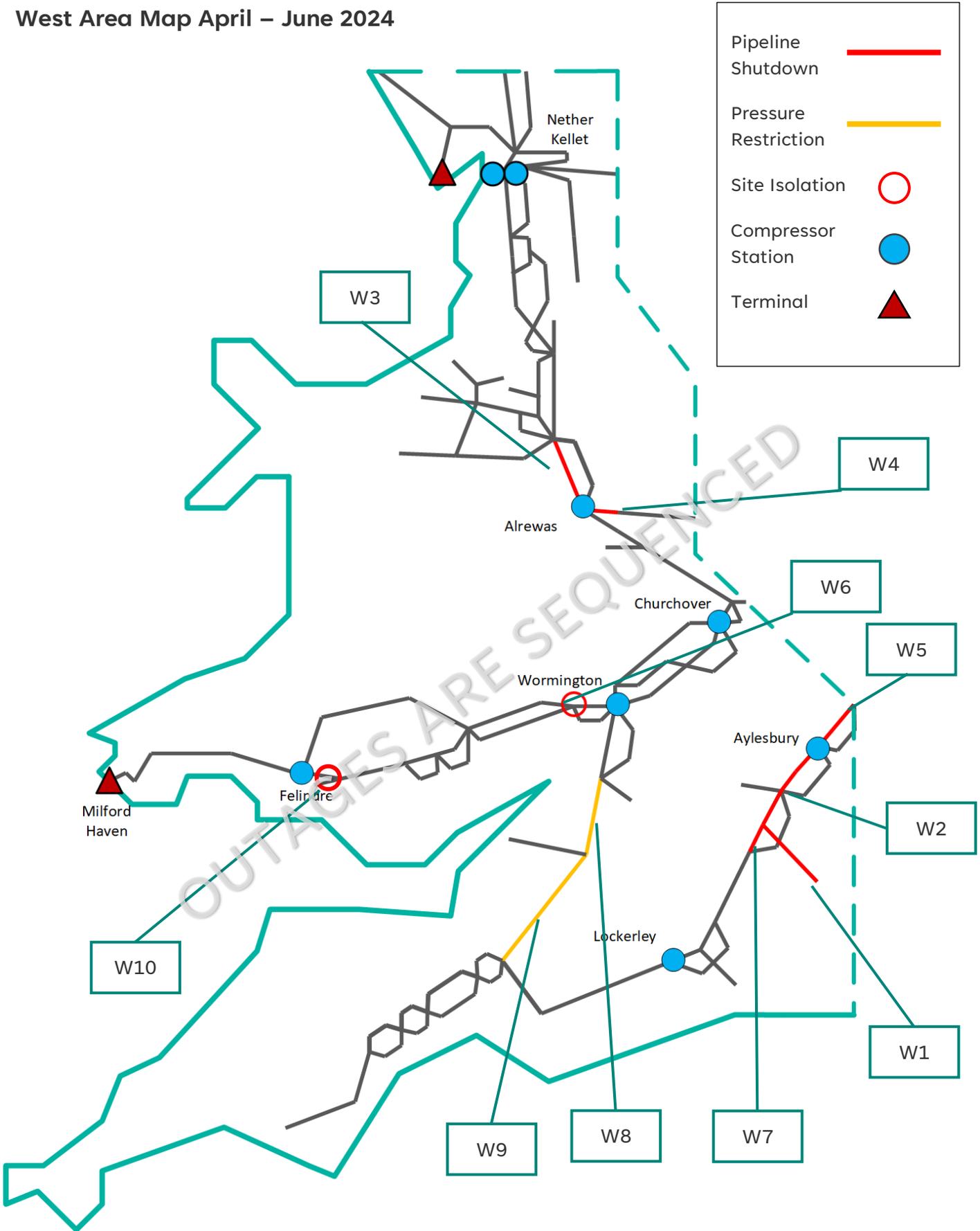
Ref N°	Pipeline	2024										2025				2026			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
W1	Feeder 7 Nuffield to Winkfield																		
W2	Feeder 7 Long Crendon to Nuffield																		
W3	Feeder 4 Audley to Alrewas																		
W4	Feeder 4 Alrewas to Edingale																		
W5	Feeder 7 Old Warden to Long Crendon																		
W6	Feeder 2, 23, 28 Tirley PRI																		
W7	Feeder 7 Nuffield to East Ilsley																		
W8	Feeder 14 Saperton to Abson																		
W9	Feeder 14 Pucklechurch to Ilchester																		
W10	Feeder 28 Cilfrew PRS Site Isolation																		
W11	Feeder 2 Dyffryn Clydach to Dowlais																		
W12	Feeder 14 Alrewas to Haunton																		
W13	Feeder 7 Chalgrove to Didcot																		
W14	Feeder 21 Alrewas to Weston Bank																		
W15	Feeder 9 Steppingley to East Ilsley																		
	Feeder 2 Churchover to Wormington																		
	Feeder 20 Barrington to Kenn South																		
	Feeder 7 Mappowder to Ilchester																		
	Feeder 4 Alrewas to Milwich																		
	Feeder 15 Burscough to Warburton																		

Ref No°	Pipeline	2024										2025				2026			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Feeder 7 Highclere to East Ilsley																			
Feeder 11 Lupton to Samlesbury																			
Feeder 28 Three Cocks to Tirley PRI																			
Feeder 21 Elworth to Mickle Trafford																			
Feeder 15 Wheelock to Warmingham																			
Feeder 2 Treaddow to Dowlais																			
Feeder 14 Pucklechurch to Temple Could																			
Feeder 11 Samlesbury to Sandy Lane																			
Feeder 14 Sapperton to Cirencester																			
Feeder 28 Felindre to Three Cocks																			
Feeder 14 Sapperton to Pucklechurch																			
Feeder 23 Treaddow to Gilwern																			
Feeder 14 Evesham to Wormington																			
Feeder 2 Wormington to Fiddington																			
Feeder 21 Warburton to Ascol Drive																			
Feeder 14 Wormington to Sapperton																			
Feeder 2 Wormington to Treaddow																			
Feeder 2/14 Churchover Compressor Tee to Churchover																			
Feeder 28 Llanwrda																			
Feeder 28 Altwern Cross																			
Feeder 28 Three Cocks																			
Feeder 14/23 Honeybourne																			
Feeder 2/14 Churchover																			
Feeder 2/23/28 Tirley PRI																			
Feeder 21 Burton Point																			
Feeder 15 Keld to Meal Bank																			

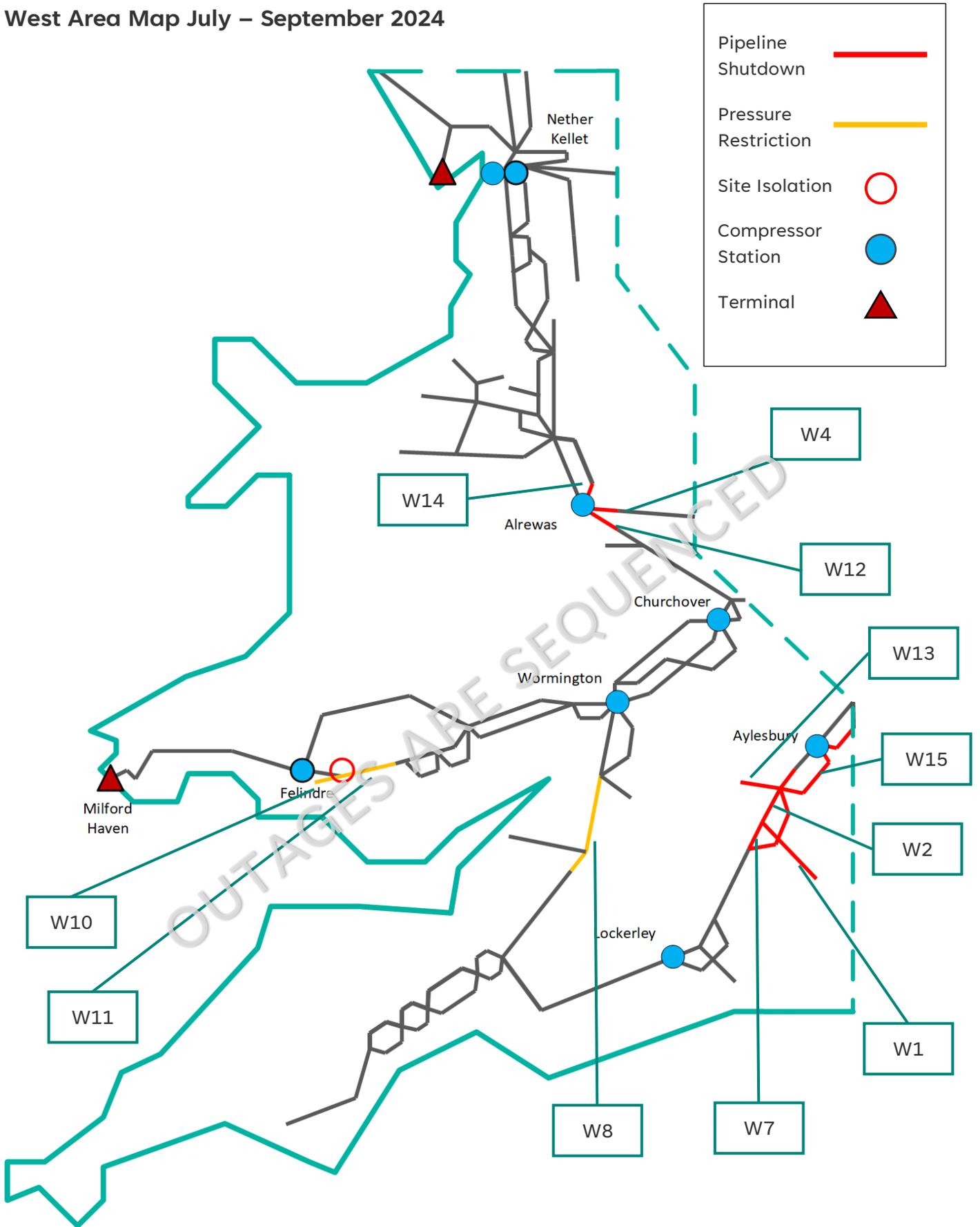
Ref N°	Pipeline	2024										2025				2026			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
	Feeder 4 Helsby																		

Please note: where a pipeline is required to be shut down the specific isolation points may differ from those displayed above. Any parties impacted by the works are contacted directly.

West Area Map April – June 2024



West Area Map July – September 2024



Scotland and North Area

= Pressure Restriction

= Pipeline Shutdown

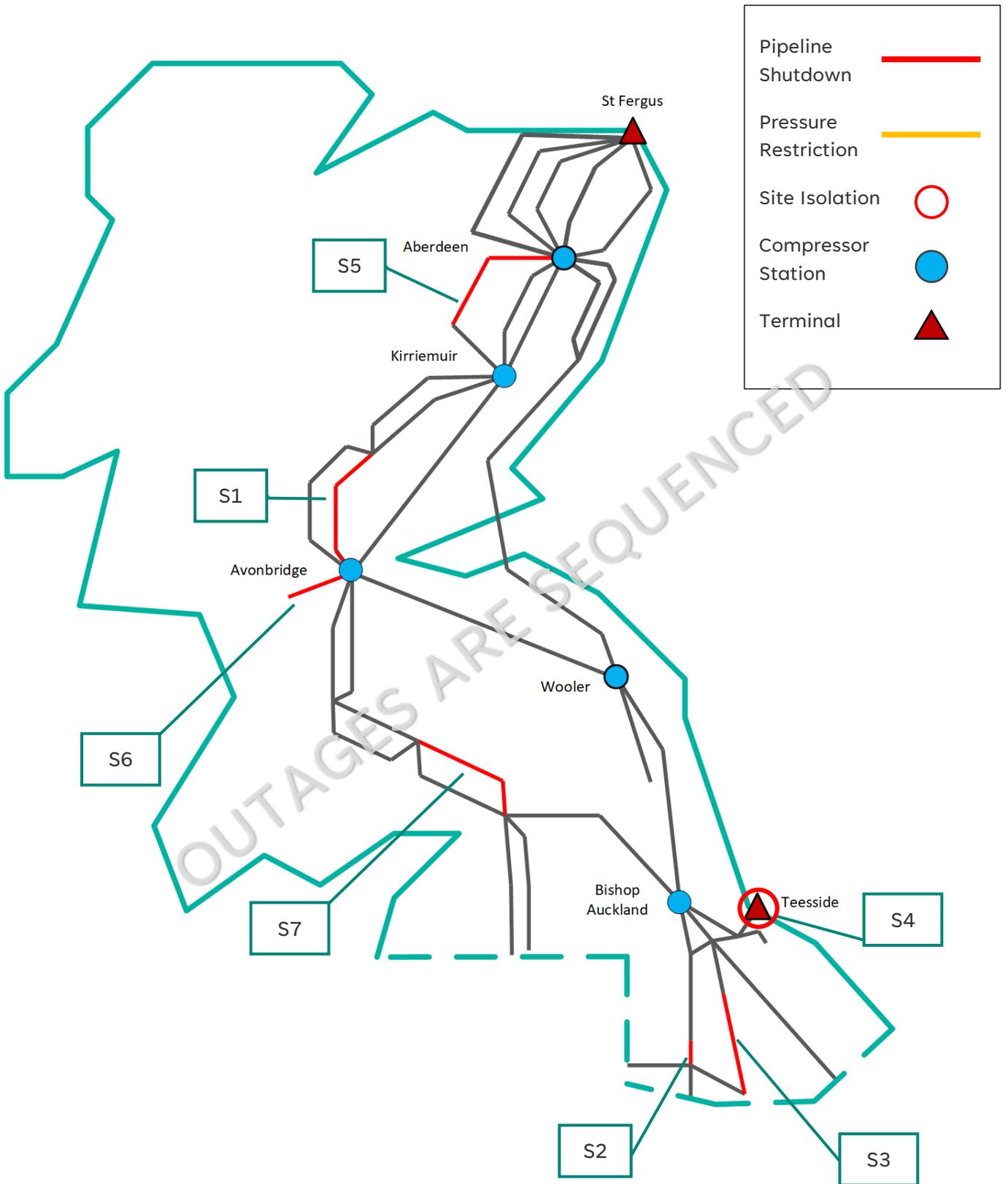
= Provisional period

Ref No	Pipeline	2024										2025				2026			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
S1	Feeder 11 Pitcairngreen to Bathgate																		
S2	Feeder 7 Pannal to Burley Bank																		
S3	Feeder 13 Yafforth to Towton																		
S4	Feeder 6 Teesside Local Isolations																		
S5	Feeder 10 Aberdeen to Tigerton																		
S6	Feeder 10 Bathgate to Glenmavis																		
S7	Feeder 12 Moffat to Longtown																		
S8	Feeder 6 Ingleby Greenhow to Gillamoor																		
S9	Feeder 10 Thrunton to Saltwick																		
S10	Feeder 12 Haltwhistle to Blanchland																		
S11	Feeder 10 Fallahill to Soutra																		
S12	Feeder 11 Kirriemuir to Pitcairngreen																		
S13	Feeder 13 Aberdeen to Lochside																		
S14	Feeder 12 Elvanfoot to Nether Howcleugh																		
S15	Feeder 15 Longtown to Great Strickland																		
S16	Feeder 11 Aberdeen to Laurencekirk																		
S17	Feeder 11 Elvanfoot to Watermeetings																		
S18	Feeder 11 Wetheral to Melkinthorpe																		
	Feeder 29 Asselby to Pannal																		
	Feeder 12 Bathgate to Elvanfoot																		
	Feeder 10 Bathgate to Penicuik																		

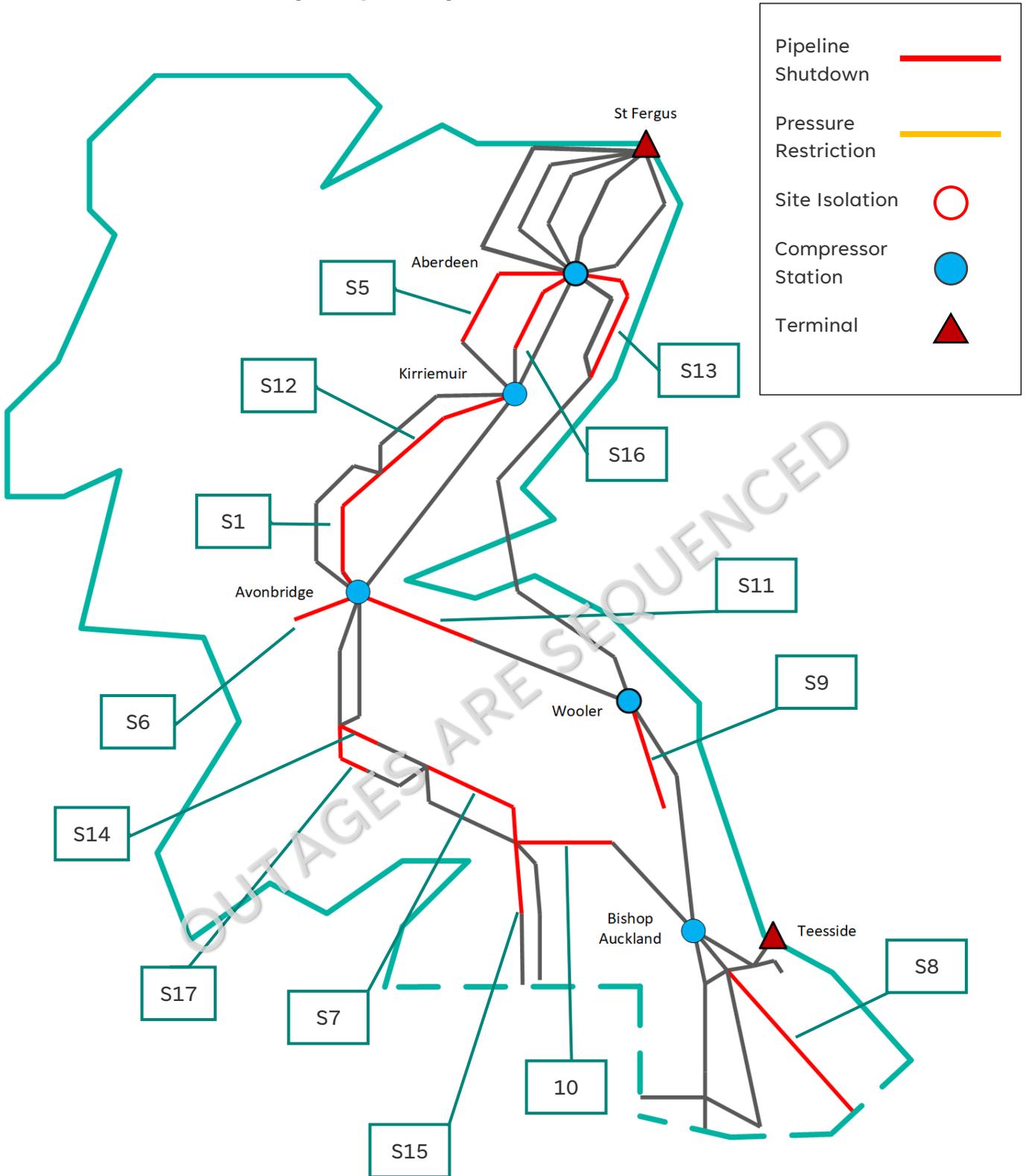
Ref N°	Pipeline	2024										2025				2026			
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
	Feeder 13 Aberdeen to Lochside																		
	Feeder 10 Aberdeen to Kirriemuir																		
	Feeder 12 Aberdeen to Kirriemuir																		
	Feeder 13 Arbroath to Haddington																		
	Feeder 10 Coldstream to Thrunton																		
	Feeder 12 Elvanfoot to Longtown																		
	Feeder 7 Bishop Auckland to Little Burdon																		
	Feeder 7 Little Burdon to Thrintoft																		
	Feeder 13 Corbridge to Bishop Auckland																		
	Feeder 13 Bishop Auckland to Baldersby																		
	Feeder 13 Gullane to Crookham																		
	Feeder 10 Crieff to Bathgate																		
	Feeder 11 Melkinthorpe to Grayrigg																		
	Feeder 29 Pannal to Nether Kellet																		
	Feeder 10 Penicuik to Boon																		
	Feeder 13 Simprim to Corbridge																		
	Feeder 13 Hunsingore to Towton																		

Please note: where a pipeline is required to be shut down the specific isolation points may differ from those displayed above. Any parties impacted by the works are contacted directly.

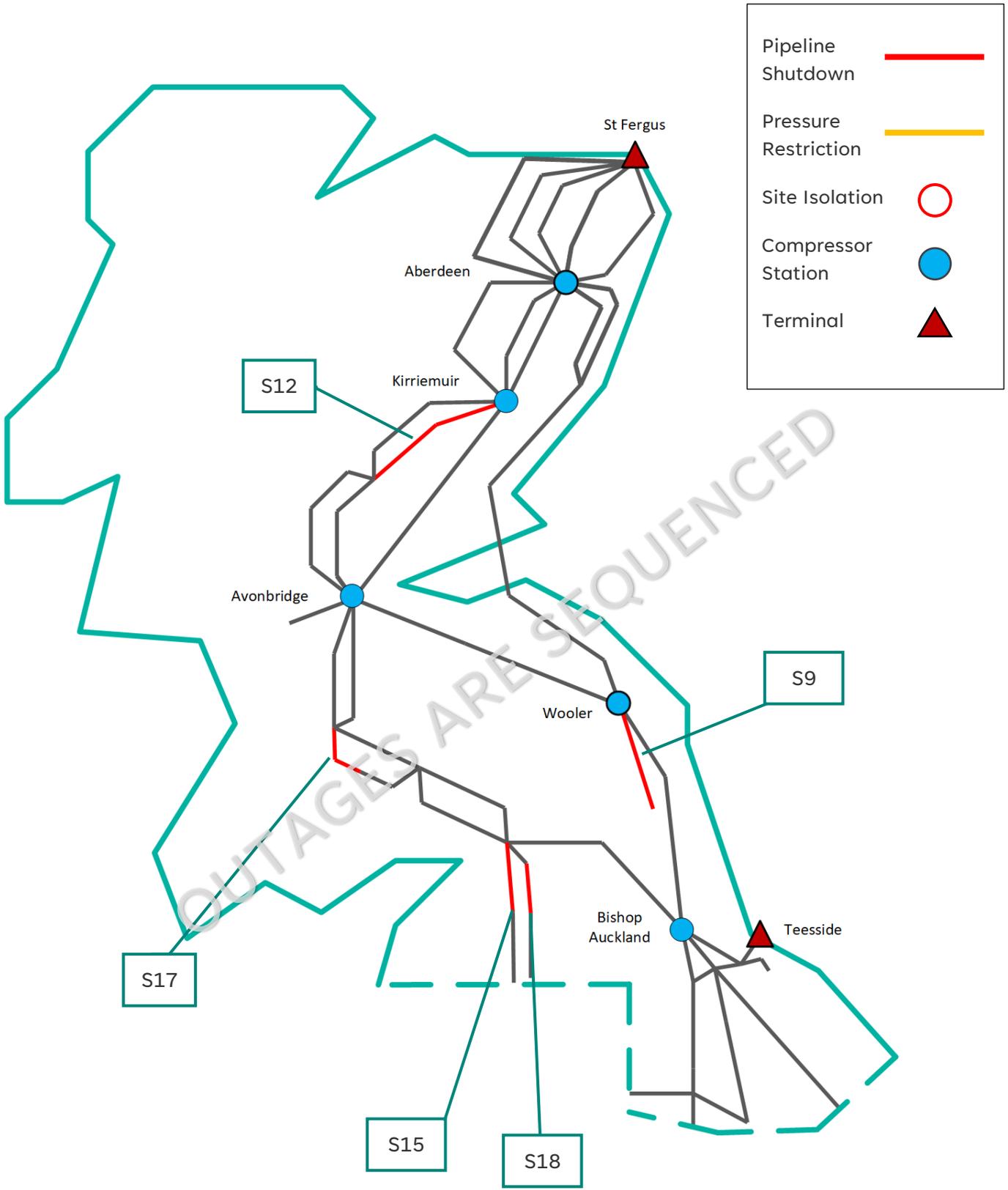
Scotland & North Map April – June 2024



Scotland & North Map July – September 2024



Scotland & North Map October – December 2024



2.3 NTS Compressor Stations

Compressors are used to help move gas around the NTS to where it is needed, maintaining pressures required at exit points whilst avoiding over-pressurising pipelines. In order to maintain our capability at Compressor Stations, routine maintenance is performed as well as a variety of other projects to maintain and improve the fleet.

 = Confirmed period  = Provisional period

Compressor Station Outages	2024										2025				2026			
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
East Area																		
Cambridge																		
Chelmsford																		
Diss																		
Hatton																		
Huntingdon																		
Kings Lynn																		
Peter-borough																		
Wisbech																		
West Area																		
Alrewas																		
Aylesbury																		
Carnforth																		
Churchover																		
Felindre																		
Lockerley																		
Nether Kellet																		
Wormington																		
Scotland & North Area																		
Aberdeen																		
Avonbridge West																		
Avonbridge East																		
Bishop Auckland																		
Kirriemuir																		
Wooler																		

3. ASEP Capability

The table below shows an indicative flow capability for each Aggregate System Entry Point (ASEP), taking into account the effect of the draft maintenance programme. The volumes are displayed month by month and are based on appropriate seasonal normal conditions.

In generating the ASEP capabilities, no account has been taken of any supply side (Delivery Facility) maintenance outages.

The values represent the ASEP's daily capability for each month, based on Seasonal Normal Demand conditions and for the period in the month where scheduled maintenance has most impact on capability. The analysis performed to produce the figures uses the assumption that a supply at a particular ASEP is favoured over other ASEPs. For example, in producing capability figures for St Fergus, it would be assumed that St Fergus ASEP would be flowing at its maximum for the season and the rest of the NTS supply was spread over other ASEPs.

Where “no impact” has been stated, this indicates that the maintenance scheduled is expected to have no adverse effect on the ASEP capability.

The capability volumes shown for the individual ASEPs are indicative only, but do represent a consistent operational view.

On any given day, the amount of capability that may be available at any ASEP will depend upon the level and distribution of the demand and the level of supplies at other terminals. In cases where scheduled maintenance has an adverse effect on an ASEP's capability, National Gas Transmission may be able to make additional capability available at other ASEPs.

	Apr	May	Jun	Jul	Aug	Sep	Oct
St Fergus	97 (1067)	81 (891)	72 (792)	82 (902)	83 (913)	82 (902)	82 (902)
Teesside	No Impact	No Impact	No Impact	No Impact	No Impact	No Impact	No impact
Barrow	No Impact	No Impact	No Impact	No Impact	No Impact	No Impact	No impact
Easington	No Impact	No Impact	No Impact	No Impact	No Impact	No Impact	No impact
Bacton*	No impact	No impact	No impact	No impact	No impact	No impact	No impact
Isle of Grain	57 (627)	52 (572)	46 (506)	42 (462)	40 (440)	42 (462)	No impact
Milford Haven**	65 (715)	25*** (275)	25*** (275)	60 (660)	60 (660)	67 (737)	No impact

Values in millions of cubic metres & (GWh)

(Conversion from millions of cubic metres to GWh using Calorific Value of 39.6 MJ/m³)

*This capability number has not been analysed as there will be no impact to any expected flows from this terminal this summer.

** These numbers are calculated by including all maintenance on the NTS and include our normal analysis assumptions to ensure consistency in the published numbers for each terminal. These may not fully align with other capability numbers published in other documentation.

***Please note that during the Tirley Tactical Access work (reference W6 in Section 2) the capability will be severely reduced (as reflected in this table, reduced to 25mcm/d) – this has been discussed with the impacted parties.

4. Maintenance Affected Exit Points

We aim to minimise the impact of our maintenance on customers through transparency, aligning our work with their outages as appropriate and facilitating customer needs for flexibility.

Outages

Each year we ask when our customers' outages are to enable alignment of works. If your outages move, please get in touch as early as possible so that we can consider whether we can also realign our works to reduce any impact of these works. Please contact us to advise of any change to outage periods via email at NTSaccessplanning@nationalgrid.com.

Where possible, work is co-ordinated with the end user to avoid supply disruption, however in certain circumstances it may be necessary to schedule work at a time which may require disrupting the supply to an Exit Point whilst the NTS maintenance is undertaken.

Shippers, End-Users and Distribution Networks will be advised, in accordance with the Uniform Network Code (UNC) requirements and timescales, of any required disruptions to supply at an Exit Point by the issuing of a Maintenance Day(s) to the relevant party.

Maintenance Day notifications will be issued by February 1st each year to all relevant parties where our maintenance will impact gas flows for the period April to October. Where work is aligned to customer outages, or there is no anticipated impact, we will issue an Advice notice for your convenience to confirm these arrangements. Should any changes or additions to the requested Maintenance Days be required, all relevant parties will be notified in line with the timescales detailed in the UNC.

Customer Recharge Process

We recognise that sometimes standard maintenance approaches may not be optimal for our customers. Where this is the case the Customer Recharge Process can enable parties to agree different maintenance approaches through a bilateral contract with directly connected customers. Customers can pay the incremental costs of working flexibly outside normal working practices where we are able to accommodate these requests. For any questions relating to the Customer Recharge Process, please contact the Business and Operations Planning Team on 01926 655625 or email via box.SCM.GTO@nationalgrid.com.

General Queries

Further information on the maintenance activities undertaken by us is available on our website¹.

If you have any queries or questions regarding the information contained within this document, please contact:

Network Access Team
Gas System Operations
National Gas Transmission
National Grid House
Gallows Hill
Warwick
CV34 6DA
NTSaccessplanning@nationalgas.com

We would welcome any feedback from you in relation to the maintenance programme or the way in which this information is provided. If you would like to provide feedback, please contact us via email at: NTSaccessplanning@nationalgas.com

¹ <https://www.nationalgas.com/data-and-operations/maintenance>

Contact:

Neil Russell

Network Access Planning Manager (Secondment)

T: +44 (0) 7773 000794

E: NTSAccessPlanning@nationalgas.com

nationalgas.com