

Keuper Gas Storage Project

Pipelines Statement

November 2015

Application Reference No:
EN030002

**THE INFRASTRUCTURE PLANNING
(APPLICATIONS: PRESCRIBED FORMS AND
PROCEDURE) REGULATIONS 2009**

KEUPER GAS STORAGE PROJECT

PIPELINES STATEMENT

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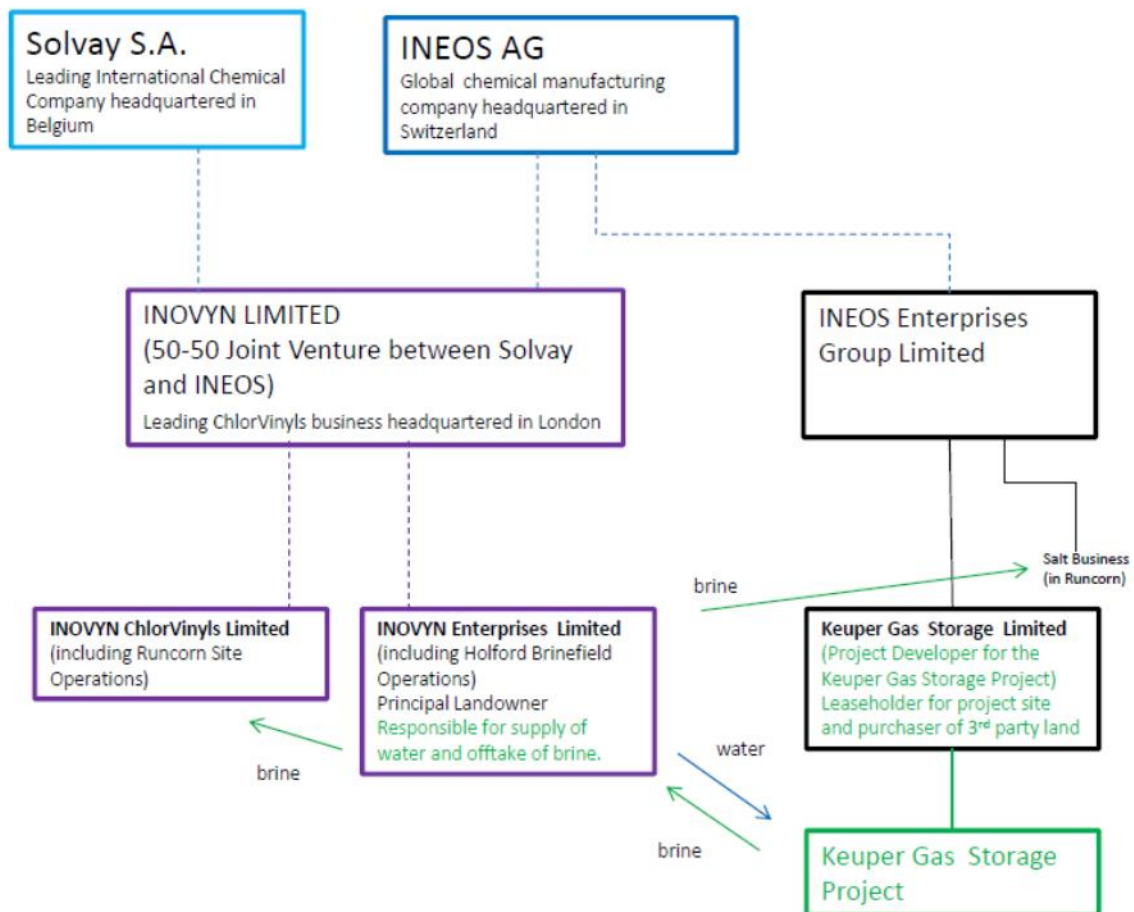
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1. Introduction

- 1.1 This Pipelines Statement relates to and forms part of an application (“the Application”) for a Development Consent Order (“DCO” or “the Order”) for the Keuper Underground Gas Storage (“UGS”) Project, Holford Brinefield, Cheshire (“KGSP” or “the Project”) made to the Secretary of State for the Department of Energy and Climate Change in accordance with the provisions of the Planning Act 2008 (“the Act”).
- 1.2 The Project is a Nationally Significant Infrastructure Project (“NSIP”) by virtue of:
 - 1.2.1 Sections 14(1)(c) and 17(1) of the Act, as the Project requires the carrying out of operations in England for the purpose of creating an UGS facility with a working capacity of at least 43 Million Standard Cubic Metres (“mcm”); and
 - 1.2.2 Sections 14(1)(g) and 21(1) of the Act, as the Project requires the provision of a system of pipes that form part of the Project and are required to convey Brine, nitrogen and natural gas, are cross-country pipelines that would, but for s.33 (1) of the Act, require authorisation under s.1(1) of the Pipelines Act 1962 (being in excess of 16.093 kilometres in total aggregate length), and begin, and end, in England.
- 1.3 The Project includes the construction and operation of 19 underground Cavities. It will be designed to store a working volume of approximately 500mcm of natural gas, with an import and export capability of up to 34mcm per day. The total gas stored, including ‘cushion’ gas (gas permanently held within the Cavities until decommissioning) will be up to 800,000 tonnes.
- 1.4 The full extent of the infrastructure applied for in the Application is described in the Project Overview (Doc ref. 8.1). See also Schedule 1 of the draft DCO, which itemises the works required to carry out the Project, and Article 35 of the DCO, which provides a list of development plans submitted to the Secretary of State for approval.

- 1.5 A full policy appraisal has been undertaken to identify and describe national and local planning and energy policies relevant to the Project, including details of emerging local planning policies. The policy appraisal concludes that the Project is in full accord with adopted and emerging national and local planning and energy policies, and that other material considerations, including security of energy supply, weigh in favour of the Project. For further details see the Policy Statement (Doc ref. 8.2), which accompanies the Application.
- 1.6 A full Environmental Impact Assessment has also been undertaken and the findings have been objectively recorded in the Environmental Statement (“ES”) (Doc refs. 6.1 to 6.3), which accompanies the Application.
- 1.7 KGSP is promoted by Keuper Gas Storage Limited (“KGSL” or “the Applicant”) a special purpose company wholly owned by INEOS Enterprises Group Limited (“IEGL”). Figure 1.1 shows the Applicant’s corporate relationship to IEGL and to INOVYN Enterprises Limited (“IEL”). IEL is the landowner of a substantial part of the Main Development Area, and will be responsible, using its established Brine and Water Business, for the Solution Mining of the Cavities for the Project.
- 1.8 This Pipelines Statement is submitted in accordance with the requirements of Regulation 6(4) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009. It provides details of the pipelines forming part of the Project.
- 1.9 The following pipelines will be constructed as part of the Project:
- Water and Brine pipeline extensions from the Holford Gas Storage Project (“HGSP”) former temporary Solution Mining Compound to the new Solution Mining Compound;
 - Water pipework from the Solution Mining Compound to the wellheads;
 - Weak Brine pipework from the wellheads to the Solution Mining Compound;
 - Nitrogen pipework from the Solution Mining Compound to the wellheads;

Figure 1.1 – The Applicant’s ownership and subsidiary structure



- Gas pipework to / from the wellheads;
- A Brine pipeline at Runcorn from an existing pipeline on the Runcorn Site, across the Weston Canal (Weaver Navigation) to discharge into the Manchester Ship Canal (“MSC”);
- A gas pipeline from the National Transmission System (“NTS”) to the Gas Processing Plant;
- Gas pipelines from the Gas Processing Plant to / from the first Gas Marshalling Compound;
- A townswater supply pipeline to the administration building and construction area;

- A sewer pipeline from the administration building and construction area;
- Interconnecting gas pipelines between the two Gas Marshalling Compound's;
- A Brine pipeline connection between the new Solution Mining Compound and the Solution Mining infrastructure at the Stublach Gas Storage Project ("SGSP");
- A water pipeline connection between the new Solution Mining Compound and the Solution Mining infrastructure at the SGSP;
- A gas pipeline connection from the Gas Marshalling Compound to Holford Gas Storage Limited ("HGSL") (E.ON Gas Storage UK) Gas Marshalling Compound; and
- A gas pipeline connection from the Gas Marshalling Compound to SGSP gas infrastructure.

1.10 Detail required by Regulation 6(4) in relation to each pipeline is described in Section 2, below. Further information can be found in the Project Overview (Doc ref. 8.1) and in schedule 1 of the draft DCO (Doc ref. 3.1).

1.11 To facilitate the development of 9 of the proposed 19 UGS Cavities, KGSL is seeking powers of compulsory acquisition in the DCO as follows:

- Temporary use of land for carrying out the Authorised Development;
- Temporary use of land for maintaining the Authorised Development; and
- Compulsory acquisition of land and rights for the purpose of carrying out, operating and maintaining the Authorised Development.

1.12 Details of temporary use and compulsory acquisition powers required in relation to those pipelines that require rights in land that cannot be obtained by agreement are detailed in the Book of Reference (Doc ref. 4.3) and Statement of Reasons (Doc ref.

4.1). Reference in Section 2, below, to a “Plot No.” or “Plot Nos.” are to the plot numbers contained in the Book of Reference.

- 1.13 Once constructed as part of the Authorised Development, KGSL will be the owner and operator of all pipelines within the Main Development Area. IEGL will remain the operator of the existing Brine and water infrastructure at Holford Brinefield, Brine Purification Plant at Lostock, Whitley Pumping Station and the Runcorn Site, and will operate it in accordance with its existing licences and Environmental Permits (see Consents Management Plan (“CMP”) (Doc ref. 5.3).
- 1.14 Where relevant, the descriptions in Section 2 of this statement detail any road, river, footpath, canal or other public access route or water course crossed or affected by the relevant pipeline. The means of crossing the access route or water course are also detailed below. KGSL will seek the necessary consents to make these crossings. For main rivers, the responsibility for this consent lies with the Environment Agency (“EA”) (please see the CMP, Doc ref. 5.3). For unnamed watercourses, responsibility for consent lies with Cheshire West and Chester Council (“CWCC”) which has been consulted on the proposals in accordance with legal requirements. Please see Drawing Nos. 13-03-01/HOL/24/301, 302, 303, 306, 307, 309, 312 and 316 (Doc refs. 2.8.6 to 2.8.9 and 2.8.11 to 2.8.13) for further information.
- 1.15 The detailed design and construction of all pipeline crossings of streets, roads and watercourses will be by agreement with the relevant planning authority, pursuant to the requirements of Schedule 2 of the DCO, in consultation, where appropriate, with the highway authority, and the EA.
- 1.16 All pipelines will be designed to meet (or exceed) British Standards.
- 1.17 Where a word or phrase is capitalised in this document (other than a proper noun or at the beginning of a sentence) a definition of it can be found in the Project Glossary (Doc ref. 8.5).

2. Pipelines Statement

- 2.1 The information required by Regulation 6(4) of the Infrastructure Planning Applications: Prescribed Forms and Procedure) Regulations 2009 is provided in Tables 2.1 – 2.15, below.
- 2.2 Appendices 1 – 5 contain illustrative diagrams depicting the pipelines comprised in the Project, as follows:
- Appendix 1 - Drawing no.: 13-03-01/HOL/60/145, showing main pipework distribution networks;
 - Appendix 2 - Showing pipelines W001 – W025;
 - Appendix 3 - Showing pipelines B001 – B025;
 - Appendix 4 - Showing pipelines G001 – G026;
 - Appendix 5 – Showing pipelines NHP001 – NHP022 and NLP001 – NLP022.
- 2.3 Where the acquisition of rights and / or interests in land are required, KGSL will make every attempt to acquire such rights / interests by agreement. In the event that this is not possible, however, KGSL intends to seek powers of compulsory acquisition in the DCO to enable the full development of the Project.

i. Water and Brine pipeline extensions from the Holford Gas Storage Project (EON) former temporary Solution Mining Compound to the new Solution Mining Compound

Table 2.1

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
W001	KGSL	Holford Gas Storage Project (Eon) former temporary Solution Mining Compound (off Drakelow Lane)	Solution Mining Compound (Work No. 4)	0.3	508	Water	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL). Consent has been granted by HGSL to cross their existing gas pipelines.
B001	KGSL	Solution Mining Compound (Work No. 4)	Holford Gas Storage Project (Eon) former temporary Solution	0.3	508	Brine	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).

			Mining Compound (off Drakelow Lane)				Consent has been granted by HGSL to cross their existing gas pipelines.
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ii. Water pipework from the Solution Mining Compound to the wellheads

Table 2.2

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
W002	KGSL	Solution Mining Compound (Work No. 4)	Wellhead (Work No. 1H)	0.90	274	Water	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p> <p>Consent for the pipeline to cross watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347)</p>
W003	KGSL	Solution Mining Compound (Work No. 4)	Junction with W004 and W005	0.71	324	Water	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Consent for the pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.
W004	KGSL	Junction with W003 and W005	Wellhead (Work No. 1J)	0.11	274	Water	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL). Consent to cross watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).
W005	KGSL	Junction with W003 and W004	Wellhead (Work No. 1L)	0.50	274	Water	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL). Consent to cross watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).
W006	KGSL			1.02	508, reducing	Water	

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
		Solution Mining Compound (Work No. 4)	Junction with W012 and W013		to 457 after junction with W011		<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consents for the pipeline to cross Yatehouse Lane and to cross an unnamed water course are required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities.</p>
W007	KGSL	Junction with W006	Wellhead (Work No. 1A)	0.62	274	Water	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Rights in land are required to cross the driveway to Brownhayes Farm, Plot No. 5.01.</p> <p>Consent for the pipeline to cross an unnamed water course is required from CWCC.</p>
W008	KGSL			0.20	274	Water	

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
		Junction with W007	Wellhead (Work No. 1K)				KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 4.01, 4.02 and 4.04.
W009	KGSL	Junction with W006	Wellhead (Work No. 1B)	0.09	274	Water	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
W010	KGSL	Junction with W006	Wellhead (Work No. 1E)	0.05	274	Water	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
W011	KGSL	Junction with W006	Wellhead (Work No. 1D)	0.10	274	Water	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
W012	KGSL	Junction with W006 and W013	Wellhead (Work No. 1M)	0.20	274	Water	

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 3.02, 3.04 and 3.10.</p>
W013	KGSL	Junction with W006 and W012	Junction with W016 and W017	0.51	406, reducing to 324 after junction with W015	Water	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 2.06, 2.13 and 3.08.</p>
W014	KGSL	Junction with W013	Wellhead (Work No. 1G)	0.09	274	Water	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p>
W015	KGSL	Junction with W013	Wellhead (Work No. 1N)	0.32	274	Water	<p>Further rights and / or interests are required in respect of Plot Nos. 3.01, 3.03 and 3.08.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
W016	KGSL	Junction with W013 and W017	Wellhead (Work No. 1P)	0.12	274	Water	Further rights and / or interests are required in respect of Plot Nos. 2.03, 2.06, and 2.13.
W017	KGSL	Junction with W013 and W016	Wellhead (Work No. 1Q)	0.30	274	Water	Further rights and / or interests are required in respect of Plot Nos. 2.02, 2.05, 2.06 and 2.13.
W018	KGSL	Junction with W006	Junction with W022 and W024	0.75	508, reducing to 457 after junction with W019, then to 406 after junction with W020	Water	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 1.07 and 1.15.</p>
W019	KGSL	Junction with W018	Wellhead (Work No. 1F)	0.16	274	Water	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.
W020	KGSL	Junction with W018	Wellhead (Work No. 1R)	0.36	274	Water	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 2.01, 2.04 and 2.11.
W021	KGSL	Junction with W018	Wellhead (Work No. 1C)	0.13	274	Water	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
W022	KGSL	Junction with W018 and W024	Wellhead (Work No. 1S)	0.13	274	Water	Further rights and / or interests are required in respect of Plot Nos. 1.03, 1.07 and 1.15.
W023	KGSL	Junction with W024	Wellhead (Work No. 1T)	0.1	274	Water	Further rights and / or interests are required in respect of Plot Nos. 1.02, 1.05 and 1.14.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
W024	KGSL	Junction with W018 and W022	Wellhead (Work No. 1U)	0.63	324 reducing to 274 after junction with W023	Water	<p>Consent for the pipeline to cross Drakelow Lane is required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Drakelow Lane is required from United Utilities.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 1.01, 1.04, 1.05, 1.06, 1.07, 1.14 and 1.15.</p>

iii. Weak Brine pipework from the wellheads to the Solution Mining Compound

Table 2.3

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
B002	KGSL	Wellhead (Work No. 1H)	Solution Mining Compound (Work No. 4)	0.90	274	Weak Brine	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p> <p>Consent for the pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p>
B003	KGSL	Junction of B004 and B005	Solution Mining Compound (Work No. 4)	0.71	324	Weak Brine	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Consent has been granted by HGSL to cross their existing gas pipelines.</p> <p>Consent for the pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.</p>
B004	KGSL	Wellhead (Work No. 1L)	Junction of B003 and B005	0.50	274	Weak Brine	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p>
B005	KGSL	Wellhead (Work No. 1J)	Junction of B003 and B004	0.12	274	Weak Brine	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a watercourse (Puddinglake Brook) has been</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							granted by the EA (EA Ref No.: NW_South_2014_347).
B006	KGSL	Junction with B010 and B011	Solution Mining Compound (Work No. 4)	0.90	324, increasing to 406 at junction with B009	Weak Brine	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a road (Yatehouse Lane) and to cross an unnamed watercourse will be required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities.</p>
B007	KGSL	Wellhead (Work No. 1A)	Junction with B006	0.62	274	Weak Brine	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Rights in land are required to cross the driveway to Brownhayes Farm, Plot No. 5.01.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.
B008	KGSL	Wellhead (Work No. 1B)	Junction with B006	0.10	274	Weak Brine	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
B009	KGSL	Wellhead (Work No. 1E)	Junction with B006	0.06	274	Weak Brine	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
B010	KGSL	Wellhead (Work No. 1D)	Junction with B006 and B011	0.11	274	Weak Brine	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
B011	KGSL	Wellhead (Work No. 1G)	Junction with B006 and B010	0.38	274	Weak Brine	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
B012	KGSL			0.16	274		

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
		Wellhead (Work No. 1F)	Junction with B013			Weak Brine	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL). Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.
B013	KGSL	Wellhead (Work No. 1C)	Junction with B006	0.72	274, increasing to 324 at B012	Weak Brine	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL). Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.
B014	KGSL	Junction of B015 and B016	Solution Mining Compound (Work No. 4)	1.52	324, increasing to 406 at junction with B017, 457 at junction with B018	Weak Brine	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Consent for the pipeline to cross a road (Yatehouse Lane) and to cross an unnamed watercourse will be required from CWCC.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
					and 508 after crossing B010		Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities. Further rights and / or interests are required in respect of Plot Nos. 2.06, 2.13 and 3.08.
B015	KGSL	Wellhead (Work No. 1Q)	Junction with B014 and B016	0.30	274	Weak Brine	Further rights and / or interests are required in respect of Plot Nos. 2.02, 2.05, 2.06 and 2.13.
B016	KGSL	Wellhead (Work No. 1P)	Junction with B014 and B015	0.12	274	Weak Brine	Further rights and / or interests are required in respect of Plot Nos. 2.03, 2.06, and 2.13.
B017	KGSL	Wellhead (Work No. 1N)	Junction with B014	0.32	274	Weak Brine	Further rights and / or interests are required in respect of Plot Nos. 3.01, 3.03 and 3.08.
B018	KGSL	Wellhead (Work No. 1M)	Junction with B014	0.21	274	Weak Brine	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Further rights and / or interests are required in respect of Plot Nos. 3.02, 3.04 and 3.10.
B019	KGSL	Wellhead (Work No. 1K)	Junction with B014	0.42	274	Weak Brine	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 4.01, 4.02 and 4.04.</p> <p>Rights in land are required to cross the driveway to Brownhayes Farm, Plot No. 5.01.</p> <p>Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.</p>
B020	KGSL	Junction with B021 and B022	Junction with B014	1.03	324, increasing to 406 at junction with B023, 457 at	Weak Brine	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Consents for the pipeline to cross a road (Drakelow Lane) and an unnamed watercourse will be required from CWCC.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
					junction with B024 and 508 after crossing B012		<p>Consent for the pipeline to cross a water pipe that routes along Drakelow Lane is required from United Utilities.</p> <p>Consent to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p> <p>Further rights and / or interests are required in respect of Plot Nos. 1.05, 1.06, 1.07, 1.14 and 1.15.</p>
B021	KGSL	Wellhead (Work No. 1U)	Junction with B020 and B022	0.35	274	Weak Brine	Further rights and / or interests are required in respect of Plot Nos. 1.01, 1.04, 1.05 and 1.14.
B022	KGSL	Wellhead (Work No. 1T)	Junction with B020 and B021	0.10	274	Weak Brine	Further rights and / or interests are required in respect of Plot Nos. 1.02, 1.05 and 1.14.
B023	KGSL	Wellhead (Work No. 1S)	Junction with B020	0.13	274	Weak Brine	Further rights and / or interests are required in respect of Plot Nos. 1.03, 1.07 and 1.15.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
B024	KGSL	Wellhead (Work No. 1R)	Junction with B020	0.36	274	Weak Brine	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 2.01, 2.04 and 2.11.</p>

iv. Nitrogen pipework from the Solution Mining Compound to the wellheads

Table 2.4

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
NHP001	KGSL	Solution Mining Compound (Work No. 4)	Wellhead (Work No. 1H)	0.90	60	High Pressure (HP) nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p> <p>Consent for this pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p>
NHP002	KGSL	Solution Mining Compound (Work No. 4)	Wellhead (Work No. 1L)	1.21	60	HP nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Consent for this pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.</p> <p>Consent to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p>
NHP003	KGSL	Junction with NHP002	Wellhead (Work No. 1J)	0.11	60	HP nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347)</p>
NHP004	KGSL	Solution Mining Compound (Work No. 4)	Junction with NHP011 and NHP010	1.02	60	HP nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Consents for the pipeline to cross a road (Yatehouse Lane) and to cross an unnamed watercourse will be required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities.</p>
NHP005	KGSL	Junction with NHP004	Wellhead (Work No. 1A)	0.62	60	HP nitrogen	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Rights in land are required to cross the driveway to Brownhayes Farm, Plot No. 5.01.</p> <p>Consent for the pipeline to cross an unnamed water course is required from CWCC.</p>
NHP006	KGSL	Junction with NHP005	Wellhead (Work No. 1K)	0.20	60	HP nitrogen	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 4.01, 4.02 and 4.04.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
NHP007	KGSL	Junction with NHP004	Wellhead (Work No. 1B)	0.09	60	HP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NHP008	KGSL	Junction with NHP004	Wellhead (Work No. 1E)	0.05	60	HP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NHP009	KGSL	Junction with NHP004	Wellhead (Work No. 1D)	0.10	60	HP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NHP010	KGSL	Junction with NHP004 and NHP011	Wellhead (Work No. 1M)	0.20	60	HP nitrogen	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 3.02, 3.04 and 3.10.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
NHP011	KGSL	Junction with NHP004 and NHP010	Junction with NHP014 and NHP015	0.51	60	HP nitrogen	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 2.06, 2.13 and 3.08.
NHP012	KGSL	Junction with NHP011	Wellhead (Work No. 1G)	0.09	60	HP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NHP013	KGSL	Junction with NHP011	Wellhead (Work No. 1N)	0.32	60	HP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 3.01, 3.03 and 3.08.
NHP014	KGSL	Junction with NHP011 and NHP015	Wellhead (Work No. 1P)	0.12	60	HP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 2.03, 2.06, and 2.13.
NHP015	KGSL	Junction with NHP011 and NHP014	Wellhead (Work No. 1Q)	0.30	60	HP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 2.02, 2.05, 2.06 and 2.13.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
NHP016	KGSL	Junction with NHP004	Junction with NHP020 and NHP022	0.75	60	HP nitrogen	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 1.07 and 1.15.</p>
NHP017	KGSL	Junction with NHP016	Wellhead (Work No. 1F)	0.16	60	HP nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.</p>
NHP018	KGSL	Junction with NHP016	Wellhead (Work No. 1R)	0.36	60	HP nitrogen	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Further rights and / or interests are required in respect of Plot Nos. 2.01, 2.04 and 2.11.
NHP019	KGSL	Junction with NHP016	Wellhead (Work No. 1C)	0.13	60	HP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NHP020	KGSL	Junction with NHP016 and NHP022	Wellhead (Work No. 1S)	0.13	60	HP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 1.03, 1.07 and 1.15.
NHP021	KGSL	Junction with NHP022	Wellhead (Work No. 1T)	0.10	60	HP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 1.02, 1.05 and 1.14.
NHP022	KGSL	Junction with NHP016 and NHP020	Wellhead (Work No. 1U)	0.63	60	HP nitrogen	Consent for the pipeline to cross Drakelow Lane is required from CWCC. Consent for the pipeline to cross a water pipe that routes along Drakelow Lane is required from United Utilities.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Further rights and / or interests are required in respect of Plot Nos. 1.01, 1.04, 1.05, 1.06, 1.07, 1.14 and 1.15.
NLP001	KGSL	Solution Mining Compound (Work No. 4)	Wellhead (Work No. 1H)	0.90	60	Low pressure (LP) nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p> <p>Consent for this pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p>
NLP002	KGSL	Solution Mining Compound (Work No. 4)	Wellhead (Work No. 1L)	1.21	60	LP nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Consent for this pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.</p> <p>Consent to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p>
NLP003	KGSL	Junction with NLP002	Wellhead (Work No. 1J)	0.11	60	LP nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent to cross watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p>
NLP004	KGSL	Solution Mining Compound (Work No. 4)	Junction with NLP011 and NLP010	1.02	60	LP nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Consents for the pipeline to cross a road (Yatehouse Lane) and to cross an unnamed watercourse will be required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities.</p>
NLP005	KGSL	Junction with NLP004	Wellhead (Work No. 1A)	0.62	60	LP nitrogen	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Rights in land are required to cross the driveway to Brownhayes Farm, Plot No. 5.01.</p> <p>Consent for the pipeline to cross an unnamed water course is required from CWCC.</p>
NLP006	KGSL	Junction with NLP005	Wellhead (Work No. 1K)	0.20	60	LP nitrogen	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Further rights and / or interests are required in respect of Plot Nos. 4.01, 4.02 and 4.04.
NLP007	KGSL	Junction with NLP004	Wellhead (Work No. 1B)	0.09	60	LP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NLP008	KGSL	Junction with NLP004	Wellhead (Work No. 1E)	0.05	60	LP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NLP009	KGSL	Junction with NLP004	Wellhead (Work No. 1D)	0.10	60	LP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NLP010	KGSL	Junction with NLP004 and NLP011	Wellhead (Work No. 1M)	0.20	60	LP nitrogen	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Further rights and / or interests are required in respect of Plot Nos. 3.02, 3.04 and 3.10.
NLP011	KGSL	Junction with NLP004 and NLP010	Junction with NHP014 and NHP015	0.51	60	LP nitrogen	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 2.06, 2.13 and 3.08.
NLP012	KGSL	Junction with NLP011	Wellhead (Work No. 1G)	0.09	60	LP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NLP013	KGSL	Junction with NLP011	Wellhead (Work No. 1N)	0.32	60	LP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 3.01, 3.03 and 3.08.
NLP014	KGSL	Junction with NLP011 and NLP015	Wellhead (Work No. 1P)	0.12	60	LP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 2.03, 2.06, and 2.13.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
NLP015	KGSL	Junction with NLP011 and NLP014	Wellhead (Work No. 1Q)	0.30	60	LP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 2.02, 2.05, 2.06 and 2.13.
NLP016	KGSL	Junction with NLP004	Junction with NHP020 and NHP022	0.75	60	LP nitrogen	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Consent for this pipeline to cross an unnamed watercourse will be required from CWCC.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 1.07 and 1.15.</p>
NLP017	KGSL	Junction with NLP016	Wellhead (Work No. 1F)	0.16	60	LP nitrogen	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
NLP018	KGSL	Junction with NLP016	Wellhead (Work No. 1R)	0.36	60	LP nitrogen	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 2.01, 2.04 and 2.11.
NLP019	KGSL	Junction with NLP016	Wellhead (Work No. 1C)	0.13	60	LP nitrogen	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).
NLP020	KGSL	Junction with NLP016 and NLP022	Wellhead (Work No. 1S)	0.13	60	HP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 1.03, 1.07 and 1.15.
NLP021	KGSL	Junction with NLP022	Wellhead (Work No. 1T)	0.10	60	HP nitrogen	Further rights and / or interests are required in respect of Plot Nos. 1.02, 1.05 and 1.14.
NLP022	KGSL	Junction with NLP016 and NLP020	Wellhead (Work No. 1U)	0.63	60	HP nitrogen	Consent for the pipeline to cross Drakelow Lane is required from CWCC.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Consent for the pipeline to cross a water pipe that routes along Drakelow Lane is required from United Utilities.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 1.01, 1.04, 1.05, 1.06, 1.07, 1.14 and 1.15.</p>

v. Gas pipework to / from the wellheads

Table 2.5

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
G006	KGSL	Gas Processing Plant (Work No. 14)	Wellhead (Work No. 1H)	0.34	Between 219 and 324	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines</p>
G007	KGSL	Gas Marshalling Compound (Work No. 20)	Wellhead (Work No. 1C)	0.83	Between 219 and 324	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a road (Yatehouse Lane) will be required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities.</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Consent has been granted by HGSL to cross their existing gas pipelines.
G008	KGSL	Gas Marshalling Compound (Work No. 20)	Wellhead (Work No. 1J)	0.78	Between 219 and 324	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.</p> <p>Consent to cross watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines</p>
G009	KGSL	Gas Marshalling Compound (Work No. 20)	Wellhead (Work No. 1L)	1.13	Between 219 and 324	Natural gas	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Consent for the pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.</p> <p>Consent to cross watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines</p>
G010	KGSL	Gas Marshalling Compound (Work No. 20)	Wellhead (Work No. 1A)	0.80	Between 219 and 324	Natural gas	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Rights in land are required to cross the driveway to Brownhayes Farm, Plot No. 5.01.</p> <p>Consent for the pipeline to cross an unnamed water course will be required from CWCC.</p>
G011	KGSL			0.33			

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
		Gas Marshalling Compound (Work No. 20)	Wellhead (Work No. 1B)		Between 219 and 324	Natural gas	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL). Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.
G012	KGSL	Gas Marshalling Compound (Work No. 20)	Wellhead (Work No. 1K)	0.56	Between 219 and 324	Natural gas	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 4.01, 4.02 and 4.04. Rights in land are required to cross the driveway to Brownhayes Farm, Plot No. 5.01. Consent for the pipeline to cross an unnamed watercourse will be required from CWCC.
G013	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1D)	0.25	Between 219 and 324	Natural gas	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
G014	KGSL	Gas Marshalling Compound (Work No. 20)	Wellhead (Work No. 1E)	0.78	Between 219 and 324	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consents for the pipeline to cross a road (Yatehouse Lane) and to cross an unnamed water course will be required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities.</p>
G015	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1F)	0.46	Between 219 and 324	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p>
G016	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1G)	0.26	Between 219 and 324	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
G017	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1M)	0.56	Between 219 and 324	Natural gas	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 3.02, 3.04 and 3.10.
G018	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1N)	0.60	Between 219 and 324	Natural gas	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 3.01, 3.03 and 3.08.
G019	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1P)	0.63	Between 219 and 324	Natural gas	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 2.03, 2.06, 3.08 and 2.13.
G020	KGSL			0.86			

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
		Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1Q)		Between 219 and 324	Natural gas	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 2.02, 2.05, 2.06, 3.08 and 2.13.
G021	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1R)	0.73	Between 219 and 324	Natural gas	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL. Further rights and / or interests are required in respect of Plot Nos. 2.01, 2.04 and 2.11. Consent for the pipeline to cross an unnamed water course will be required from CWCC.
G022	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1S)	0.90	Between 219 and 324	Natural gas	KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Further rights and / or interests are required in respect of Plot Nos. 1.03, 1.07 and 1.15.</p> <p>Consent for the pipeline to cross an unnamed water course will be required from CWCC.</p>
G023	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1T)	1.19	Between 219 and 324	Natural gas	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 1.02, 1.05, 1.06, 1.07, 1.14 and 1.15.</p> <p>Consent for the pipeline to cross a road (Drakelow Lane) and an unnamed watercourse will be required from CWCC.</p> <p>Consent for the pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							Consent for the pipeline to cross a water pipe that routes along Drakelow Lane is required from United Utilities.
G024	KGSL	Gas Marshalling Compound (Work No. 21)	Wellhead (Work No. 1U)	1.50	Between 219 and 324	Natural gas	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by IEL.</p> <p>Further rights and / or interests are required in respect of Plot Nos. 1.01, 1.04, 1.05, 1.06, 1.07, 1.14 and 1.15.</p> <p>Consent for the pipeline to cross a road (Drakelow Lane) and an unnamed watercourse will be required from CWCC.</p> <p>Consent for the pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p> <p>Consent for the pipeline to cross a water pipe that routes along Drakelow Lane is required from United Utilities.</p>

vi. Brine pipeline from an existing pipeline on the Runcorn Site across the Weston Canal (Weaver Navigation) to discharge into the Manchester Ship Canal

Table 2.6

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
B026	IEL	Existing Brine pipeline at Runcorn Site Grid Ref: 349841,380706	Manchester Ship Canal Grid Ref: 349981,380323	0.6	508	Brine	<p>KGSL has obtained the necessary land rights for this pipeline to be constructed on the freehold that is owned by INOVYN Chlorvinyls Limited (“ICV”).</p> <p>Further rights and / or interests are required in respect of this pipework to cross the Weston Canal (Weaver Navigation) owned by Canal & River Trust (“CRT”) and to discharge into the MSC. All required rights have been obtained by commercial agreement separately with CRT, for the Weston Canal, and Peel Holdings, for the MSC.</p> <p>The discharge of Brine into the MSC has also been agreed with the EA (EA Permit Ref No. EPR/DP3424GK).</p>

vii. Gas pipeline from the National Transmission System (NTS) to the Gas Processing Plant

Table 2.7

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
G001	KGSL	National Transmission System	Gas Processing Plant (Work No. 14)	0.5	915	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>A storage connection agreement to the NTS will be required from National Grid (“NG”).</p>

viii. Gas pipelines from the Gas Processing Plant to / from the first Gas Marshalling Compound

Table 2.8

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
G002	KGSL	Gas Processing Plant (Work No. 14)	Gas Marshalling Compound (Work No. 20)	1.14	219	Natural gas	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL). Consent to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347)
G004	KGSL	Gas Processing Plant (Work No. 14)	Gas Marshalling Compound (Work No. 20)	1.14	915	Natural gas	KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL). Consent to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347)

ix. Townswater pipeline to the administration building and construction area

Table 2.9

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
TW001	KGSL	Existing water supply running along King Street (A530)	Administration building via construction area.	0.45	60	Water	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross the NG NTS pipeline will be required from NG and connection consent will be required from the utility supplier (United Utilities).</p>

x. Sewer pipeline from the administration building and construction area

Table 2.10

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
S001	KGSL	Construction area and administration building	Existing sewer running alongside King Street (A530)	0.45	219	Waste water	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross the NG NTS pipeline will be required from NG and connection consent will be required from the utility supplier (United Utilities).</p>

xi. Interconnecting gas pipelines between the two Gas Marshalling Compounds

Table 2.11

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
G003	KGSL	Gas Marshalling Compound (Work No. 20)	Gas Marshalling Compound (Work No. 21)	0.70	219	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a road (Yatehouse Lane) and to cross an unnamed watercourse will be required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities.</p>
G005	KGSL	Gas Marshalling Compound (Work No. 20)	Gas Marshalling Compound (Work No. 21)	0.70	915	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p>

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
							<p>Consent for the pipeline to cross a road (Yatehouse Lane) and to cross an unnamed watercourse will be required from CWCC.</p> <p>Consent for the pipeline to cross a water pipe that routes along Yatehouse Lane is required from United Utilities.</p>

xii. Brine pipeline connection between the new Solution Mining Compound and the Solution Mining infrastructure at the Stublach Gas Storage Project (Storengy)

Table 2.12

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
B025	KGSL	Solution Mining Compound (Work No. 4)	Stublach Gas Storage Project (Storengy) Solution Mining infrastructure	1.65	508	Brine	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.</p> <p>Consent for the pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines</p>

xiii. Water pipeline connection between the new Solution Mining Compound and the Solution Mining infrastructure at the Stublach Gas Storage Project (Storengy)

Table 2.13

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
W025	KGSL	Stublach Gas Storage Project (Storengy) Solution Mining infrastructure	Solution Mining Compound (Work No.4)	1.65	508	Water	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.</p> <p>Consent for the pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p>

xiv. Gas pipeline connection from the Gas Marshalling Compound to Holford Gas Storage Limited (EON) Gas Marshalling Compound

Table 2.14

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
G025	KGSL	Gas Marshalling Compound (Work No. 20)	Holford Gas Storage Limited (Eon) Gas Marshalling Compound	0.57	915	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p> <p>Consent will be required from HGSL to connect to their gas infrastructure.</p>

xv. Gas pipeline connection from the Gas Marshalling Compound to Stublach Gas Storage Project (Storengy) gas infrastructure

Table 2.15

Name of Pipeline	Owner	Start Point	End Point	Length (km)	External Diameter (mm)	What will be conveyed	Whether the grant of any rights in land or consents to road or river crossings are required and if so whether they can be obtained by agreement
G026	KGSL	Gas Marshalling Compound (Work No. 20)	Stublach Gas Storage Project (Storengy) gas infrastructure	1.81	915	Natural gas	<p>KGSL has obtained all necessary land rights for this pipeline to be constructed from the owner of the freehold of the land (IEL).</p> <p>Consent for the pipeline to cross a public bridleway (RB7), part of the IEL private road section of Drakelow Lane, will be required from CWCC.</p> <p>Consent for the pipeline to cross a watercourse (Puddinglake Brook) has been granted by the EA (EA Ref No.: NW_South_2014_347).</p> <p>Consent has been granted by HGSL to cross their existing gas pipelines.</p> <p>Consent will be required from Storengy UK Limited to connect to their gas infrastructure.</p>

Appendix 1

Drawing no.: 13-03-01/HOL/60/145

Showing main pipework distribution networks

Appendix 2

Water Network Between SMC3 and Wellheads

Appendix 3

Weak Brine Network Between Wellheads and SMC3

Appendix 4

Gas Distribution Network

Appendix 5

LP & HP Nitrogen Network Between Storage and Wellheads