



Keuper Gas Storage Project

Environmental Statement
Clarifications and Errata

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KEUPER GAS STORAGE PROJECT

ENVIRONMENTAL STATEMENT CLARIFICATIONS AND ERRATA

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ENVIRONMENTAL STATEMENT CLARIFICATION AND ERRATA

The table below indicates errata identified within the submitted Environmental Statement and Technical Annexes (Document References 6.1 and 6.2).

DOCUMENT REFERENCE	SECTION / PAGE REFERENCE	ISSUE	ORIGIN	ACTION
6.1 Environmental Statement	Table 1.1 / Page 1-5 (Row 3)	Amend Point 3 bridge height at Runcorn	s51 Advice Note and ExA Question 6.22 (1 st Written Questions)	A new stretch of brine pipeline, including a 20-metre high pipe bridge with 18m clearance above canal water level connecting to an outfall
6.1 Environmental Statement	Table 6.1 / Page 6-6 (Row 6)	Noise & Vibration references BS5228	ExA Question 3.3 (1 st Written Questions)	Reference should be BS 5228-1:2009+A1:2014
6.1 Environmental Statement	Paragraph 7.3.11 / Page 7 - 14	Foot & Mouth burial site location	Applicant clarification following ExA Question 1.26 (1 st Written Questions)	Local records show a large animal burial site from the 1967 foot and mouth outbreak within the Main Assessment Area, to the north south east of Drakelow Hall Farm.
6.1 Environmental Statement	Table 7.10 / Page 7 – 26 and page 7-27	Several references to Technical Guidance WM2	Applicant clarification	Now updated to Technical Guidance WM3
6.1 Environmental Statement	Paragraph 7.5.4 / Page 7-40	Reference to CDM Regulations 2007	Applicant clarification	Now updated to CDM Regulations 2015
6.1 Environmental Statement	Paragraph 7.5.4 / Page 7-41	References to Technical Guidance WM2	Applicant clarification	Now updated to Technical Guidance WM3
6.1 Environmental Statement	Paragraph 7.5.4 / Page 7-42	References to the Special Waste Regulations 1996 and Special Waste	ExA Question 1.2 (1 st Written Questions)	Provision will be made for a suitable environmental specialist to identify any 'special-hazardous waste' as defined in the Special Waste regulations 1996 No 972 Hazardous Waste Regulations 2005 (as amended) so that it can be suitably managed and disposed of during works.
6.1 Environmental Statement	Paragraph 8.11.8 / Page 8-43	Length of hedgerow net gain	ExA Question 2.10 (1 st Written Questions)	Planting associated with new infrastructure and as mitigation for hedgerow loss will result in a net gain of 460.9 289m of hedgerow.
6.1 Environmental Statement	Paragraph 8.11.30 / Page 8-46	Footnote reference	ExA Question 2.8 (1 st Written Questions)	Footnote should reference: The Environment Agency for England and Wales (2011) Horizontal Guidance Note H1: Annex F
6.1 Environmental Statement	Paragraph 9.8.1 / Page 9-12	Noise reference BS5228	ExA Question 3.3 (1 st Written Questions)	Reference should be BS 5228-1:2009+A1:2014
6.1 Environmental Statement	Paragraph 9.8.4 / Page 9-13	Noise reference BS5228	ExA Question 3.3 (1 st Written Questions)	Reference should be BS 5228-1:2009+A1:2014
6.1 Environmental Statement	Paragraph 9.8.7 / Page 9-15	Noise reference BS5228	ExA Question 3.3 (1 st Written Questions)	Reference should be BS 5228-1:2009+A1:2014

6.1 Environmental Statement	Paragraph 9.10.2 / Page 9-16	Noise reference BS5228	ExA Question 3.3 (1 st Written Questions)	Reference should be BS 5228-1:2009+A1:2014
6.1 Environmental Statement	Table 10.5 / Page 10-10	Details for stacks S1 & S2	ExA Question 4.5 (1 st Written Questions)	Flue diameter given as 0.63m should be 0.69m
6.1 Environmental Statement	Paragraph 12.4.5 / Page 12-21	Vehicle movements	ExA Question 5.1 (2 nd Written Questions)	In terms of vehicle impacts, at the peak of the programme, it is expected that some 300 150 two-way vehicle movements per day
6.1 Environmental Statement	Paragraph 12.4.20 / Page 12-24	IEA Rule 2	ExA Question 6.7 (1 st Written Questions)	Given the above review of results, which demonstrates increases in 'worst case' construction HGV traffic levels of well below IEA rule 2 (30%) (10%) guideline thresholds,
6.1 Environmental Statement	Paragraph 12.5.2 / Page 12-26	Wheel washing is not required to be secured via S106 Agreement	ExA Question 6.14 (1 st Written Questions)	A HGV Routing agreement, secured through a S106 agreement, will be prepared, and supported by the CEMP and secured by means of a Section 106 Agreement, in consultation with the local highway authority, to secure elements such as appropriate routes for use by HGVs and facilities for wheel washing.
6.1 Environmental Statement	Paragraph 13.1.2 / Page 13-1 (third bullet point)	Loss of agricultural land	ExA Question 7.2 (1 st Written Questions)	the permanent loss of approximately 21.6 hectares (ha) of land from agricultural production and a further 73.7 ha temporarily during construction. a total of 73.7 hectares of land will be temporarily lost during construction of which, 21.6 hectares will be lost permanently.
6.1 Environmental Statement	Paragraph 13.5.5 / Page 13-33	Reference to CDM Regulations 2007	Applicant clarification	Now updated to CDM Regulations 2015
6.1 Environmental Statement	Table 14.1 Page 14-2	Dimensions of proposed operational elements	S51 Advice Note	Existing table incorrect. Replace with new table (as appears at Annex 1)
6.1 Environmental Statement	Table 14.8 / Page 14-26	Viewpoint 2 vent height	ExA Question 4.5 & 8.20 (1 st Written Questions)	20 m high water heater vents. Now revised to 10m high.
6.1 Environmental Statement	Table 14.8 / Page 14-26	Night time construction task lighting	ExA Question 8.18 (1 st Written Questions) and ExA Question 6.3 (2 nd Written Questions)	Details added for receptors 3, 6, 8 & 9 (replacement table 14.8 appears at Annex 2)
6.1 Environmental Statement	Paragraph 14.5.6 / Page 14-35	Visual mound height	ExA Question 1.30 (1 st Written Questions) and ExA Question 1.4 & 6.2 (2 nd Written Questions)	The top soil will be used locally to form low bunds or mounds (maximum 3m high) surrounding the Gas Processing Plant area and other construction areas.

6.1 Environmental Statement	Table 21.1 / Page 21-1 (traffic and transport)	Pipebridge height at Runcorn	s51 Advice Note and ExA Question 6.22 (1 st Written Questions)	Height clearance of 20m 18m above canal water level for the pipebridge has been agreed
6.1 Environmental Statement	Table 23.2 / Page 23.8	Potential Pollutant Linkages for Human Health Receptors – Baseline Case	ExA Question 1.46 (1 st Written Questions)	Transposition error for the ticks and crosses in the final column ‘asbestos’. The asbestos column in this Table should read: <ul style="list-style-type: none"> • a tick for ‘inhalation....’ (first row); • a cross for ‘ingestion...’ (second row); and • ‘unlikely’ for ‘inhalation of airborne dust by residents’ (third and final row)
6.1 Environmental Statement	Table 23.4 / Pages 23-11 to 23-13	Several references to Technical Guidance WM2	Applicant clarification	Now updated to Technical Guidance WM3
6.1 Environmental Statement	Paragraph 23.5.3 / Page 23-17	Reference to CDM Regulations 2007	Applicant clarification	Now updated to CDM Regulations 2015
6.1 Environmental Statement	Paragraph 23.5.3 / Page 23-17 (fifth bullet point)	Reference to the Special Waste Regulations 1996 and Special Waste	ExA Question 1.2 (1 st Written Questions)	Provision will be made for identification of any ‘ special hazardous ’ waste’ as defined in the Special Waste regulations 1996 No 972 Hazardous Waste Regulations 2005 (as amended) so that it can be suitably managed and disposed of during works.
6.1 Environmental Statement	Paragraph 23.5.3 / Page 23-17	Reference to Technical Guidance WM2	Applicant clarification	Now updated to Technical Guidance WM3
6.1 Environmental Statement	Paragraph 24.4.6 / Page 24-10 (bullet point)	Pipebridge height at Runcorn	s51 Advice Note and ExA Question 6.22 (1 st Written Questions)	the permanent presence of a walkway /pipe bridge approximately 20 m 18m above the water level of the Weston Canal.
6.1 Environmental Statement	Table 26.1 / Page 26-5 (Construction – Geology etc.)	Several references to Technical Guidance WM2	Applicant clarification	Now updated to Technical Guidance WM3
6.1 Environmental Statement	Table 26.1 / Page 26-8 (Construction – Traffic & Transport)	Wheel washing is not required to be secured via S106 Agreement	ExA Question 6.14 (1 st Written Questions)	A HGV Routing Plan will be secured through a S106 agreement, in consultation with the local highway authority, and will identify appropriate routes for use by HGVs and facilities for wheel-washing.
6.1 Environmental Statement	Table 26.1 / Page 26-8 (Construction – Socio economic)	Reference to CDM Regulations 2007	Applicant clarification	Now updated to CDM Regulations 2015
6.1 Environmental Statement	Table 26.1 / Page 26-8 (Operation – Air Quality)	Environmental Permit	Applicant / Environment Agency clarification	The gas processing plant will operate under an Environmental Permit issued by the Environment Agency. Replace with: The Environment Agency have confirmed that the gas processing plant is not

				required to operate under an Environmental Permit.
6.1 Environmental Statement	Table 26.3 / Page 26-11	Several references to Technical Guidance WM2	Applicant clarification	Now updated to Technical Guidance WM3
6.1 Environmental Statement	Table 26.3 / Page 26-11	Reference to CDM Regulations 2007	Applicant clarification	Now updated to CDM Regulations 2015
6.2 ES Technical Appendices	General Environmental Statement Annexes Annex A	CEMP	Applicant clarification	To be replaced with latest version of draft CEMP (Rev 4)
6.2 ES Technical Appendices	Geology – Annex A	Groundsure Report	s51 Advice Note	Groundsure Report to be included (Copy appears at Annex 3)
6.2 ES Technical Appendices	Ecology Annexes – Annex C (Section 3 Methodology)	GCN report – Second paragraph has missing text	ExA Question 2.5 (1 st Written Questions)	The A530 (King Street) at the west of the site and the B5081 (Middlewich Road) at the east were considered to present a barrier to GCN dispersal and there was no permission to access land beyond the roads therefore 10 ponds situated beyond these roads were excluded from further assessment. Due to revision of the proposed layout since the date of survey, a small number of other ponds within the 250m buffer were also surveyed using eDNA sampling (P428, P425, P426, P414, P329, P327, X49, X45 & P365).
6.2 ES Technical Appendices	Noise Annexes – Annex A Page A11 Section A5 (last bullet point)	Noise assessment details Erroneous reference	Applicant clarification	Delete Error! Reference source not found
6.2 ES Technical Appendices	Noise Annexes – Annex A Page A12 Section A6.1 (third paragraph)	Noise assessment details Erroneous references	Applicant clarification	Replace Error! Reference source not found and Error! Reference source not found With: Drawing 13-03-01/HOL/60/1003-P7 and Drawing 13-03-01/HOL/60/1004-P3
6.2 ES Technical Appendices	Cultural Heritage Annexes – Annex B	Gazetteer – Main Assessment Area	s51 Advice Note	Drafting comments (right hand side) should be removed
6.2 ES Technical Appendices	Cultural Heritage Annexes – Annex B	Gazetteer – Main Assessment Area	s51 Advice Note	Schedule Monument 13 makes reference to (see site X below). This should read (see site 17 below)
6.2 ES Technical Appendices	Landscape Annexes – Annex A (page 1 / fourth bullet point)	Landscaping Plan	Applicant clarification	Introduction section references the ES as Document 4.1. This should be 6.1

6.2 ES Technical Appendices	Landscape Annexes – Annex A (Page 1 / 1.1)	Landscaping Plan	Applicant clarification	Introduction section incorrectly makes reference to Volume 9 of the DCO Application. This should read Volume 8 .
6.2 ES Technical Appendices	Landscape Annexes – Annex A Section 1.2 / second paragraph	Bund height	ExA Question 1.30 (1 st Written Questions) and ExA Question 1.4 & 6.2 (2 nd Written Questions)	The top soil will be used locally to form low bunds or mounds (maximum 3m high) surrounding the Gas Processing Plant area and other construction areas.
6.2 ES Technical Appendices	Landscape Annexes – Annex A (Paragraph 1.3.1)	Figure reference	Applicant clarification	Incorrectly reference Figure 14A.1 . This reference should be to drawings 13-03-01/HOL/24/266 - 268
6.2 ES Technical Appendices	Landscape Annexes – Annex A (Paragraph 1.3.2)	Incorrect reference	ExA Question 8.7 (1 st Written Questions)	Reference is made to a Figure xx . This reference should be to drawings 13-03-01/HOL/24/266 – 268
6.2 ES Technical Appendices	Landscape Annexes – Annex A (Paragraph 1.3.2)	Incorrect reference	ExA Question 8.7 (1 st Written Questions)	Reference to Volume 9 of the DCO Application. This should read Volume 8 .
6.2 ES Technical Appendices	Landscape Annexes – Annex A (Paragraph 1.3.5)	Incorrect reference	Applicant clarification	References to the ES as Document 4.1 . This should be 6.1
6.2 ES Technical Appendices	Landscape Annexes – Annex B	LVIA Baseline	ExA Question 8.12 (1 st Written Questions)	Figures 14.4 to 14.19 should be replaced with revised figures (as appears at Annex 4)
6.3 ES Non-Technical Summary	Page 21 Traffic and Transport (sixth paragraph)	Vehicle movements	ExA Question 5.1 (2 nd Written Questions)	At the peak of the construction programme, it is expected that 300 150 two-way movements of light vehicles (such as cars)
6.3 ES Non-Technical Summary	Page 22 (third paragraph)	Loss of agricultural land	ExA Question 7.2 (1 st Written Questions)	The Project will result in the permanent loss of approximately 21 hectares of land from agricultural production and a further 73 ha temporarily during construction. A total of 73.7 hectares of land will be temporarily lost during construction of which, 21.6 hectares will be lost permanently.
6.3 ES Non-Technical Summary	Page 30 (fifth paragraph)	Pipebridge height at Runcorn	s51 Advice Note and ExA Question 6.22 (1 st Written Questions)	A pipebridge will be installed 20m 18m above the water level of the Weaver Navigation Canal.
6.3 ES Non-Technical Summary	Page 32 Mitigation and Environmental Management	Reference to CDM Regulations 2007	Applicant clarification	Now updated to CDM Regulations 2015

Annex 1 – ES Table 14.1
Annex 2 – ES Table 14.8
Annex 3 - Groundsure Report
Annex 4 – ES Figures 14.4 – 14.19

ANNEX 1 (ES Table 14.1)

Design Element	Description
Gas storage cavities and associated wellheads and compounds	<ul style="list-style-type: none"> Nineteen cavities will be created by solution mining and each will have an associated surface wellhead and compound. A 60 m x 80 m construction, laydown and operational area will be required at each location. The size of each compound will be reduced to 50 m x 50 m for the solution mining and gas storage phases. Each compound will contain various ancillary equipment up to 3 m in height.
Pipelines	<ul style="list-style-type: none"> These will include underground water, brine and gas pipelines connecting the Project with the existing INOVYN Enterprises infrastructure. In advance of laying the pipelines, topsoil stripping and excavation will be required for the pipeline corridors which will be a minimum width of 25 m.
Gas Processing Plant (GPP)	<ul style="list-style-type: none"> This will have a footprint of c. 4 ha (including the cold vent area) and will contain equipment with a typical height of between 3 and 5 m, with certain elements, such as the compressor house and drying towers, up to 10m high and vents up to 25 m high. Much of the equipment will be housed in buildings made from either brick or metal cladding painted to blend with surroundings.
Gas Marshalling Compounds (GMC)	<ul style="list-style-type: none"> The two GMCs will comprise structures with a footprint of 50 m x 50 m and will be up to c. 3 m in height.
Solution Mining Compound (SMC)	<ul style="list-style-type: none"> The SMC (in use for the duration of the solution mining activities) will have a footprint of approximately 80 m x 130 m. Various ancillary equipment, including water booster pumps, degassing equipment and local pumping and control equipment will be up to c. 4 m in height, with nitrogen storage unit vent approximately 9 m high.
NTS Connection Compound	<ul style="list-style-type: none"> The NTS connection compound will have a footprint of approximately 50m x 60m, with the highest item of equipment being less than 3 m.
New Sub-Station 132KV033KV	<ul style="list-style-type: none"> This will feed the GPP via a combination of overhead / buried 33kV powerlines. The footprint will be approximately 50 m x 80 m. The approximate height of the switch /control room will be 4 m and the electrical equipment will be up to 8 m high. A new pylon to the 132kV overhead line, located adjacent to an existing pylon.
Site access and internal access roads	<ul style="list-style-type: none"> The project will be accessed from the public highway through an existing access point on King Street (A530) at Drakelow Farm. All construction traffic (including all HGVs) will use this road so that it does not travel through surrounding villages. Internal site roads will provide access during construction, operation and decommissioning. Roads will typically be single lane (c. 4m wide) with some allowing for two-way traffic (c. 7 m wide) with passing places and constructed of crushed stone with asphalt top.

ANNEX 2 (Table 14.8)

Table 14.8 Effects on Visual Receptors

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
1	High	Construction activities will be largely screened from view by intervening hedgerow vegetation in the foreground, middle ground and background of the view. The drilling rigs associated with wellhead H508 will be just about discernible in the background of the view approximately 1.8 km from the viewer. Taller plant and machinery associated with the construction of the GPP will also be partially visible in the distance to the right of the view. However these elements will be seen alongside existing pylon towers and two existing gas wellheads and will be temporary in nature.	Negligible	Not significant	The operational elements of the Project will be largely screened from view by intervening hedgerow vegetation within the foreground and middle ground of the view. Taller elements within the GPP, such as the 25 m high emergency cold vent, will be partially visible in the right background of the view at a distance of over 1.9 km. In addition the proposed 33 kV power lines and associated pylons will be visible in the right background of the view. These, however, will be visible alongside existing pylons and power lines.	Negligible	Not significant
2	High	At night construction task lighting associated with construction of the Project will be barely perceptible. Existing elements within the foreground, including vegetation and farm equipment, will largely restrict views of construction activities from this location. However, tall plant and machinery used to construct the GPP and the drilling rig associated with wellhead H508 will be visible above this in the right background of the view, at a distance of approximately 400 m. These elements will, however, be temporary in nature and seen alongside existing visual clutter within the foreground.	Negligible	Not significant	At night the on-demand security lighting associated with the Project will be barely perceptible. The operational Project will be largely screened from view at this location. Only the taller elements within the GPP, such as the 25 m high emergency cold vent and the 10 m high water heater vents, will be visible in the right background of the view, at a distance of approximately 300 m. This, however, will be visible within the context of a view containing existing visual clutter in the foreground and other man-made vertical elements such as telegraph poles.	Negligible	Not significant
		At night, construction task lighting within the GPP will be discernible as illumination in the right background. This, however, will be seen alongside existing illumination associated with	Small	Minor	At night, on-demand security lighting within the GPP will be barely discernible as illumination in the right background. This will also be seen alongside existing	Negligible	Not significant

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
3	High	<p>infrastructure in Stublach.</p> <p>Construction activities associated with new overhead 33 kV power lines (connecting the GPP with the new sub-station at Stublach) will be clearly visible across the view from the left middle ground to the right background. In addition the tall plant and machinery used to construct the GPP and the drilling rig associated with wellhead H508, will be visible in the right middle ground of the view at distances of approximately 450 m and 300 m respectively. This activity will occur relatively close to the visual receptor, but will be temporary in nature, partially filtered by intervening vegetation and will be seen within the context of a view containing existing infrastructure, including pre-existing wellheads and pylons.</p> <p>The view from this location during construction is illustrated in <i>Figure 14.20a (Landscape Annex B)</i>.</p>	Medium	Moderate	<p>illumination associated with infrastructure in Stublach.</p> <p>The new overhead 33 kV power lines will be clearly visible across the view from the left middle ground to the right background. Wellhead H508 will be largely screened from view by intervening hedgerow vegetation in the right middle ground of the view. Intervening hedgerows in the middle ground and background of the view will also screen views of lower elements of the operational GPP. Only the taller elements, such as the emergency cold vent, will be visible above this in the right background of the view, at a distance of approximately 450 m. Despite its relative proximity to the viewer, the Project will be visible alongside existing man-made elements such as wellheads and pylons. The view from this location during operation is illustrated in <i>Figure 14.20 (Landscape Annex B)</i>.</p>	Small	Minor
4	High	<p>At night, construction task lighting within the GPP will be discernible as illumination in the background. Construction task lighting for the drilling rig associated with wellhead H508 will be visible in the middle ground. This will be temporary in nature.</p> <p>Vegetation lining Drakelow Lane will largely screen views of construction activities associated with wellhead H509 within the left background of the view. To the right background of the view, tall plant and machinery associated with the construction of SMC3, GMC3 and wellhead H502, will be visible, although views will be partially filtered</p>	Small	Minor	<p>At night, on-demand security lighting associated with the GPP will be barely perceptible within the background of the view. This will be low level lighting seen alongside existing illumination associated with infrastructure at Stublach.</p> <p>The GMC3 will be visible in front of Drakelow Gorse woodland in the right background of the view, but will be heavily filtered by intervening vegetation within the middle ground. Other operational elements in the field of view, including wellhead H502, will be largely imperceptible from this location due to intervening topography and</p>	Negligible	Not significant

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
		by intervening vegetation in the middle ground and background. This activity will occur at a distance of over 650 m and will be seen alongside pre-existing solution mining infrastructure.			vegetation.		
		At night, construction task lighting around the SMC3 will be visible within the right background of the view. This will be temporary in nature and seen alongside existing security lighting within the existing solution mining wellheads.	Negligible	Not significant	At night, on-demand security lighting associated with the GMC3 will be barely perceptible within the right background of the view. This will be low level lighting seen alongside existing security lighting within the pre-existing solution mining wellheads.	Negligible	Not significant
5	Medium	Construction activities associated with wellhead H509 will be clearly visible within the field in the right foreground of the view. This will include prominent views of the associated drilling rig approximately 300 m from the viewer. These activities will represent a clearly visible change in relative proximity to the viewer, but will be seen alongside pre-existing infrastructure and will be temporary in nature.	Medium	Moderate	The operational wellhead H509 will be clearly visible within the field in the right foreground of the view. This will be seen alongside two existing wellheads of a similar nature within the centre middle ground of the view.	Small	Minor
		At night, construction task lighting around wellhead H509 will be clearly visible within the field in the right foreground of the view. This however will be temporary in nature and seen alongside existing security lighting associated with pre-existing solution mining wellheads.	Medium	Moderate	At night, on-demand security lighting around wellhead H509 will be clearly visible within the right foreground of the view. This, however, will be low level lighting seen alongside existing security lighting associated with pre-existing solution mining wellheads.	Small	Minor
6	Low	Construction activities associated with the NTS Compound will be partially visible in the left foreground of the view approximately 50 m from the viewer. In addition tall plant associated with the construction of the GPP will be visible above the line of intervening hedgerow in the middle ground. However,	Small	Not significant	The NTS Compound will be visible in the right foreground of the view, and taller elements within the GPP, such as the emergency cold vent, will be visible in the centre middle ground above a line of hedgerow vegetation. However, views will be transient in nature and heavily filtered by	Small	Not significant

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
		views will be transient in nature and heavily filtered by roadside vegetation across the foreground.			roadside vegetation across the foreground.		
		At night, construction task lighting within the GPP will be discernible as illumination in the background. This, however, will be temporary in nature.	Small	Minor	At night, on-demand security lighting within the GPP will be barely discernible as illumination in the background. Views will generally be transient in nature.	Small	Not significant
7	Medium	Construction activities associated with wellhead H502 and associated access road and pipelines will be prominent within the centre foreground of the view approximately 50 m from the viewer. This will include clear views of topsoil stripping, subsoil mounding, construction laydown areas and the 25 m high drilling rig. In addition, vegetation removal will be visible in the left middle ground which will open up views of the construction of the SMC3 and GMC3 in the left background. This will represent a considerable change to the existing view, albeit temporary in nature. The view from this location during construction is illustrated in <i>Figure 14.21a (Landscape Annex B)</i> .	Large	Major	Wellhead H502 and the associated access track will be clearly visible within the centre foreground of the view approximately 50 m from the viewer. In addition the GMC3, will be partially visible in the left background, with views heavily filtered by intervening hedgerow vegetation. The view from this location during operation is illustrated in <i>Figure 14.21 (Landscape Annex B)</i> .	Medium	Moderate
		At night, construction task lighting around wellhead H502 will be clearly visible in the centre foreground of the view. This will be temporary in nature and seen within the context of a view containing only faint light spill from scattered settlements in the background of the view.	Medium	Moderate	At night, on-demand security lighting associated with H502 will be clearly visible in the centre foreground of the view and lighting associated with the GMC3 will be perceptible as illumination in the left background. This will be low level lighting seen within the context of a view containing only faint light spill from scattered settlements in the background of the view.	Small	Minor
8	Medium	Construction activities associated with wellhead H503 will be clearly visible within the left middle ground at a distance of	Medium	Moderate	Wellhead H503 will be visible in the left middle ground within the adjacent field at a distance of approximately 200 m. Wellhead	Small	Minor

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
		<p>approximately 200 m. The construction of the access track and pipelines connecting wellhead H503 will also be visible across the field in the centre middle ground of the view. In addition construction activities around wellhead H506 will be partially visible in the right middle ground approximately 350 m away. Within the centre background of the view the 25 m high drilling rigs associated with wellheads H516 and H517 will be perceptible above a number of intervening hedgerows. These activities will, however, be visible alongside pre-existing telegraph poles and power lines and will be temporary in nature.</p> <p>At night, temporary construction task lighting associated with a number of wellheads will be perceptible as illumination within the middle ground and background of the view. This will be seen alongside light from scattered residential properties within the background and passing vehicles along the B5081 and Drakelow Lane.</p>			<p>H506 will be partially visible to the right of the view, with intervening hedgerows providing intermittent visual filtering. Wellheads H516 and H517 will be largely screened from view by a number of intervening hedgerows. This will represent new intrusive elements within the landscape, although they will be seen alongside other pre-existing infrastructure such as telegraph poles and pylons.</p>		
9	Medium	<p>Construction activities associated with wellhead H518 will be clearly visible in the centre middle ground of the view within the adjacent field at a distance of approximately 300 m. In addition the tall plant associated with the construction of wellhead H519 will be visible in the right background of the view above intervening topography and vegetation.</p> <p>At night, temporary construction task lighting associated with a number of wellheads will be faintly perceptible as illumination within the middle ground and background of the view. This will be seen alongside light from scattered residential properties within the background</p>	Small	Minor	<p>At night, low level on-demand security lighting associated with a number of wellheads will be perceptible as illumination within the middle ground and background of the view. This will be seen alongside light from scattered residential properties in the background and passing vehicles along the B5081.</p> <p>Wellhead H518 will be clearly visible in the centre middle ground of the view at a distance of approximately 300 m. Wellhead H519 will be partially visible in the right background at a distance of approximately 470 m, although intervening topography and vegetation will restrict views.</p>	Small	Not significant
		<p>At night, temporary construction task lighting associated with a number of wellheads will be faintly perceptible as illumination within the middle ground and background of the view. This will be seen alongside light from scattered residential properties within the background</p>	Small	Minor	<p>At night, low level on-demand security lighting associated with a number of wellheads will be barely perceptible as illumination within the middle ground and background of the view. This will be seen alongside light from scattered residential</p>	Negligible	Not significant

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
10	High	<p>and passing vehicles along the B5081.</p> <p>Construction activities around wellhead H516 will be visible in the right middle ground at a distance of approximately 300 m. Hedgerow vegetation and the mature trees within the middle ground of the view will restrict views of low construction machinery but the 25 m high drilling rig will be clearly visible. Within the background the drilling rigs associated with a number of wellheads, including H506, H514 and H515, will also be perceptible. This activity, however, will be temporary in nature and will be visible alongside pre-existing pylons within the background and pre-existing lighting poles within the foreground.</p>	Small	Minor	<p>properties in the background and passing vehicles along the B5081.</p> <p>Wellhead H516 will be perceptible in the right middle ground, but views will be filtered by intervening hedgerow vegetation. A number of wellheads will be present in the background, including H506, H514 and H515. These, however, will be largely screened from view by intervening vegetation. Considering the presence of pre-existing pylons and lighting poles, the magnitude of change is considered to be negligible.</p>	Negligible	Not significant
11	High	<p>At night, temporary construction task lighting associated with a number of wellheads will be faintly perceptible as illumination within the middle ground and background of the view. This will be seen alongside light from scattered residential properties within the background and passing vehicles along the B5081.</p> <p>Construction activities associated with wellhead H519 and H518 will be visible in the middle ground of the view at a distance of approximately 350 m and 550 m respectively. Intervening hedgerow vegetation across the middle ground of the view will restrict views to low equipment but taller plant, such as the drilling rigs, will be visible above this. This will represent intrusive industrial elements within a predominantly rural view, but will be partially screened from view.</p>	Small	Minor	<p>At night, low level on-demand security lighting associated with a number of wellheads will be barely perceptible as illumination within the middle ground and background of the view. This will be seen alongside light from scattered residential properties in the background and passing vehicles along the B5081.</p> <p>Wellheads H518 will be largely screened from view by intervening lines of hedgerow vegetation. Wellhead H519 will be partially visible, although views will be heavily filtered.</p>	Negligible	Not significant

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
		At night, temporary construction task lighting associated with wellhead H519 and H518 will be perceptible as illumination in the middle ground. This will be taken within the context of a view containing illumination from existing wellheads across the background of the view.	Small	Minor	At night, low level on-demand security lighting associated with wellhead H519 and H518 will be barely perceptible as illumination in the middle ground. This will be taken within the context of a view containing illumination from existing wellheads across the background of the view.	Negligible	Not significant
12	High	Tall plant used to construct the GPP will be discernible in the left background of the view at a distance of approximately 850 m. Intervening vegetation and topography will, however, restrict views of other construction activities around the GPP. Rising topography and hedgerow vegetation within the right middle ground will restrict views towards construction activities around well H501, although the top of the drilling rig will be visible above this. These activities will be temporary in nature and viewed alongside existing pylons and the busy King Street.	Small	Minor	The Project will be largely screened from view, although the top of the Emergency Cold Vent will be visible in the left background of the view at a distance of approximately 1km. This will be seen alongside existing pylons within the background.	Negligible	Not significant
		At night, temporary construction task lighting associated with the GPP and wellhead H501 within the background of the view will be faintly perceptible. This will be taken alongside light from passing vehicles along King Street within the foreground of the view.	Negligible	Not significant	At night, low level on-demand security lighting associated with the GPP and wellhead H501 within the background of the view will be barely perceptible. This will be taken alongside light from passing vehicles along King Street within the foreground of the view.	Negligible	Not significant
13	High	Construction activities around wellhead H504 will be clearly visible in the left middle ground of the view at a distance of approximately 350 m. In addition the drilling rigs associated with a H505 and H507 will be discernible in the left and centre middle ground respectively, although views of lower elements will be partially filtered by intervening vegetation.	Medium	Moderate	Wellhead H504 will be visible in the left middle ground of the view at a distance of approximately 350 m. Views, however, will be partially filtered by intervening hedgerow vegetation and will feature pre-existing pylons and telegraph poles. The GMC3a and wellheads H505 and H507 will be present within the background of the	Small	Minor

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
		<p>This activity will be temporary in nature and will be visible alongside existing human influences, including pylons, telegraph poles and farm buildings.</p> <p>The view from this location during construction is illustrated in <i>Figure 14.22a (Landscape Annex B)</i>.</p>			<p>view but will be largely imperceptible from this location. The view from this location during operation is illustrated in <i>Figure 14.22 (Landscape Annex B)</i>.</p>		
		<p>At night, temporary construction task lighting associated with wellhead H504 will be visible in the left middle ground. In addition illumination from task lighting around a number of wellheads will be faintly perceptible in the centre and right of the background. This will be visible alongside light spill from residential properties in the foreground.</p>	Small	Minor	<p>At night, low level on-demand security lighting associated with wellhead H504 will be visible in the left middle ground. In addition illumination from security lighting around a number of wellheads will be faintly perceptible in the centre and right of the background. This will be visible alongside light spill from residential properties in the foreground.</p>	Small	Minor
14	High	<p>The 25 m high drilling rig associated with wellhead H515 will be visible in the centre middle ground at a distance of approximately 170 m. Views of other associated construction activities will, however, be heavily filtered by intervening hedgerow vegetation in the middle ground. Tall plant used to construct the GMC3a and the drilling rigs associated with a number of other wellheads will also be perceptible within the background, although visible alongside pre-existing pylons and telegraph poles.</p>	Small	Minor	<p>The Project will be largely screened from view from this location. The GMC3a will be just perceptible in the centre background of the view next to the existing pylon within an area of slightly raised topography.</p>	Negligible	Not significant
		<p>At night, temporary construction task lighting associated with wellhead H515 will be perceptible as illumination in the centre middle ground. This will be visible alongside light from vehicles passing along the B5081 within the foreground.</p>	Negligible	Not significant	<p>At night, low level on-demand security lighting associated with wellhead H515 will be barely perceptible as illumination in the centre middle ground. This will be visible alongside light from vehicles passing along the B5081 within the foreground.</p>	Negligible	Not significant

Viewpoint ref.	Sensitivity	Construction Phase Effects			Operational Phase Effects		
		Description of Effects	Magnitude of Change	Significance	Description of Effects	Magnitude of Change	Significance
15	High	This viewpoint is located over 1.75 km from the nearest Project element. Therefore construction activities will be largely imperceptible from this location.	Negligible	Not significant	The Project will be imperceptible from this location.	Negligible	Not significant
16	Low	At night, construction task lighting associated with the Project will be largely imperceptible.	Negligible	Not significant	At night, on-demand security lighting associated with the Project will be largely imperceptible.	Negligible	Not significant
		The drilling rigs associated with a number of wellheads, including H512, H513, and H515, will be perceptible in the background at a distance of over 800 m. Views, however, will be partially filtered by intervening trees. This activity will be visible alongside a prominent series of pre-existing pylons.	Negligible	Not significant	The Project will be largely screened from view by intervening hedgerow vegetation and trees from this location.	Negligible	Not significant
		At night, construction task lighting associated with a number of wellheads will be barely perceptible as illumination within the background of the view.	Negligible	Not significant	At night, on-demand security lighting associated with a number of wellheads will be barely perceptible as illumination within the background of the view.	Negligible	Not significant

ANNEX 3 (Groundsure Report)

ANNEX 4 (LVIA Baseline) - Figures 14.4 to 14.19