

ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

Kinsale Area Decommissioning Project – Consent Application No. 2



MGE0698RP0008
Environmental Impact
Assessment Report
Technical Review
F02
17 February 2020

Document status					
Version	Purpose of document	Authored by	Reviewed by	Approved by	Review date
F01	Final	Various	P. Kearney	G McElhinney	6 February 2020
F02	Final	Various	P. Kearney	G McElhinney	17 February 2020

Approval for issue	
Gareth McElhinney	17 February 2020

© Copyright RPS Group Limited. All rights reserved.

The report has been prepared for the exclusive use of our client and unless otherwise agreed in writing by RPS Group Limited no other party may use, make use of or rely on the contents of this report.

The report has been compiled using the resources agreed with the client and in accordance with the scope of work agreed with the client. No liability is accepted by RPS Group Limited for any use of this report, other than the purpose for which it was prepared.

RPS Group Limited accepts no responsibility for any documents or information supplied to RPS Group Limited by others and no legal liability arising from the use by others of opinions or data contained in this report. It is expressly stated that no independent verification of any documents or information supplied by others has been made.

RPS Group Limited has used reasonable skill, care and diligence in compiling this report and no warranty is provided as to the report's accuracy.

No part of this report may be copied or reproduced, by any means, without the written permission of RPS Group Limited.

Prepared by:

RPS

Gareth McElhinney
Technical Director Environment

Lyrr 2, IDA Business & Technology Park, Mervue
Galway, H91 H9CK

T +353 91 400 200
E Gareth.mcelhinney@rpsgroup.com

Prepared for:

DCCAE

Noel Regan
Assistant Principal Officer

Petroleum Affairs Division, Policy & Regulation,
DCCAE, 29-31 Adelaide Road
Dublin

T 01 678 2000
E Noel.Regan@DCCAE.gov.ie

Dublin | Cork | Galway | Sligo
rpsgroup.com

RPS Group Limited, registered in Ireland No. 91911
RPS Consulting Engineers Limited, registered in Ireland No. 161581
RPS Planning & Environment Limited, registered in Ireland No. 160191
RPS Engineering Services Limited, registered in Ireland No. 99795
The Registered office of each of the above companies is West Pier
Business Campus, Dun Laoghaire, Co. Dublin, A96 N6T7



Contents

1	INTRODUCTION	1
1.1	Kinsale Area Decommissioning Project	1
1.2	Relevant Legislation	1
1.3	Consent Application No. 1.....	1
1.4	Consent Application No. 2.....	2
2	TECHNICAL REVIEW: CONSENT APPLICATION NO.2	4
3	METHODOLOGY	6
3.1	Overview	6
3.2	Third Party Submissions	6
4	DISCUSSION AND CONCLUSION	7
4.1	Discussion	7
4.2	Conclusion.....	7
4.3	Environmental Conditions	8

Appendices

Appendix A EIAR Review Checklist

Appendix B Consultation Submissions

1 INTRODUCTION

1.1 Kinsale Area Decommissioning Project

PSE Kinsale Energy Limited (KEL) and Seven Heads Limited (SHL) are preparing for the decommissioning of the Kinsale area gas facilities. The Kinsale area gas facilities comprise the Kinsale Head gas field (which includes the adjacent satellite Ballycotton Gas Field and the Southwest Kinsale Gas Field), the Seven Heads gas field, the offshore topside platforms and jackets, infield subsea infrastructure (including well head structures, pipelines and umbilicals) and the onshore gas metering terminal at Inch, Co. Cork. The decommissioning project is herein referred to as the Kinsale Area Decommissioning Project (KADP).

The full decommissioning will be the subject of a number of separate applications to DCCAE for permissions. Two applications have been made to date, namely:

- Consent Application No.1 has been completed and is summarised in **Section 1.3** below.
- Consent Application No.2 is the subject of this report, as summarised in **Section 1.4** below.

1.2 Relevant Legislation

Oil and gas exploration and production activities are regulated in Ireland under the Petroleum and Other Minerals Development Act 1960 (as amended) (referred to herein as the POMDA). Under the POMDA the Department of Communications, Climate Action and Environment (DCCAE) is a designated competent national authority. There is a statutory obligation on the Minister for the DCCAE to confirm that all projects seeking authorisation to undertake activity under the POMDA comply with the requirements of the European Union 2011/92/EU Directive on the assessment of the effects of certain public and private projects on the environment (known as the Environmental Impact Assessment [EIA] Directive) as amended by Directive 2014/52/EU. In Ireland, the obligations of the EIA Directive in relation to oil and gas exploration are currently implemented *via* the European Union (Environmental Impact Assessment) (Petroleum Exploration) Regulations 2013 to 2019¹.

The Continental Shelf Act 1968 (as amended) makes provisions in relation to the exploration and exploitation of the Continental Shelf. Under Section 2 of the Act the Government has power to make orders to designate areas of the seabed outside the territorial waters of the State in which the State has exploration and exploitation rights. Under Section 5 of the Act, the consent of the Minister for the DCCAE is required to construct, alter or improve any structure or works in a designated area. Section 4 of the 1968 Act makes provisions that implement the POMDA, and thus the EIA Directive and the European Union (Environmental Impact Assessment) (Petroleum Exploration) Regulations 2013 as amended, in relation to the oil and gas exploration and exploitation on the Continental Shelf.

To meet the obligations of the EIA Directives and the associated national regulations, project proponents are required to provide sufficient information to enable the Competent Authority to undertake an EIA Screening assessment to determine whether or not the proposed project (either alone or in-combination with other projects) is likely to have significant effects on aspects of the environment by virtue of its nature, size and location. Where significant environmental effects of the project cannot be ruled out (through an exercise called *screening*) the Competent Authority can request the project proponent prepare an Environmental Impact Assessment Report (EIAR) for the project; a report summarising the project, its impacts and the likely significant environmental effects in accordance with the EIA directive and legislation. Aspects of the environment to be considered include biological and socio-economic receptors.

1.3 Consent Application No. 1

On 28 June 2018, KEL and SHL submitted project consent application no.1 to the Minister of State at the Department of Rural and Community Development and DCCAE seeking consent to undertake decommissioning of certain facilities in the Kinsale Head and Ballycotton Gas Fields, and the Seven Heads

¹ 2013 Regulations amended by S.I. No. 124/2019 - European Union (Environmental Impact Assessment) (Petroleum Exploration) (Amendment) Regulations 2019, to give further effect to Directive 2011/92/EU and the amending Directive 2014/52/EU.

gas field. The scope of decommissioning work covered by the applications included the removal of the two platform topside structures and the plugging and abandoning of wells, which are detailed in full in the submitted *Kinsale Head Decommissioning Plan*² and *Seven Heads Decommissioning Plan*³.

To meet obligations of the EIA Directives and the Habitats Directive, the consent application submitted by KEL and SHL to the DCCAE were supported by the following:

- the *Kinsale Area Decommissioning Project - Environmental Impact Assessment Report*⁴ (referred to herein as the KADP-EIAR); and
- *Report for the purposes of Appropriate Assessment Screening and Article 12 Assessment Screening*⁵ (the report is referred to herein as the AA Screening Report).

The KADP-EIAR and the AA Screening Report cover the environmental impacts of the entire decommissioning of the facilities for both the Kinsale Gas Area and the Seven Heads Gas Field.

RPS was commissioned by the PAD-DCCAE to provide technical review support in relation to the statutory assessment of the KADP-EIAR and AA Screening Report.

On 23 April 2019, the Minister determined that he was satisfied with the information submitted with regard to the decommissioning plan relating to consent application no.1 and consented to the decommissioning of certain facilities in the Kinsale Area and Seven Heads Gas Field, including consent to alter and remove facilities from the area pursuant to Section 2 of S.I. No. 92/1993 - Continental Shelf (Designated Areas) Order, 1993, pursuant to Section 5(2) of the Continental Shelf Act 1968, as amended. The determination stated:

Having carried out an EIA in relation to the Relevant Works, alone and in combination with other developments, [the Minister] agrees with the conclusion of RPS Consultants that, subject to the implementation of the mitigation measures proposed, as set out in the EIAR and the draft EMP, and subject to compliance with the conditions set out [in the consent], the Relevant Works will not result in significant adverse effects on the environment.

The applicant was notified of the Minister's determinations and consent by letters, dated 26 April 2019.

1.4 Consent Application No. 2

On 8 August 2019, KEL submitted an application seeking consent from the Minister for the decommissioning of certain facilities of the Kinsale Head gas fields. This application covers the following:

- **Platform jackets:** complete removal in accordance with OSPAR Decision 98/3.

To support the application for consent and meet obligations of the EIA and Habitats Directives, reports accompanying the application included the following:

- the KADP-EIAR⁵;

² Decommissioning Plan - Kinsale Head Petroleum Lease (OPL 1) - Consent Application No.1 (see <https://www.dccae.gov.ie/documents/Seven%20Heads%20AA%20TAB%202%20-%20Seven%20Heads%20Decommissioning%20Plan.pdf>)

³ Decommissioning Plan - Seven Heads Petroleum Lease - Consent Application No.1 (see <https://www.dccae.gov.ie/documents/Seven%20Heads%20AA%20TAB%202%20-%20Seven%20Heads%20Decommissioning%20Plan.pdf>)

⁴ The relevant documentation on KADP EIAR can be found at: <https://www.dccae.gov.ie/en-ie/natural-resources/consultations/Pages/Decommissioning-of-certain-facilities-within-the-Kinsale-Head-Petroleum-Lease-area.aspx>

⁵ Report for the purposes of Appropriate Assessment Screening and Article 12 Assessment Screening can be found at the following location: <https://dccae.gov.ie/documents/AA%20TAB%203%20-%20Applicant%20Report%20for%20Purposes%20of%20Appropriate%20Assessment%20Screening%20and%20Article%2012%20Assessment%20Screening.pdf>

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

- the *Kinsale Area Decommissioning - Environmental Impact Assessment Report Addendum*⁶ (referred to herein as the KADP-EIAR Addendum);
- the AA Screening Report⁴; and
- *Kinsale Area Decommissioning Appropriate Assessment Screening and Article 12 Assessment Screening Addendum* (referred to herein as the AA Screening Report Addendum⁷).

RPS has been commissioned by the PAD-DCCAE to provide technical review support in relation to the statutory assessment of the above reports submitted in support of Consent Application No. 2.

⁶ KADP-EIAR Addendum can be found at: <https://www.dccae.gov.ie/documents/PSE%20Kinsale%20EIAR%20Addendum.pdf>

⁷ AA Screening Addendum can be found at <https://www.dccae.gov.ie/documents/PSE%20Kinsale%20AA%20Screening%20Report%20Addendum.pdf>

2 TECHNICAL REVIEW: CONSENT APPLICATION NO.2

This technical review report presents the findings of the RPS review and assessment of the KADP-EIAR and KADP-EIAR Addendum reports and also takes into account the AA Screening Report, AA Screening Report Addendum and the other supporting information included in the *Decommissioning Plan – Kinsale Head Petroleum Lease (OPL 1) – Consent Application No. 2*⁸; (referred to herein as the 'Kinsale Head Decommissioning Plan 2').

The purpose of this report is to:

- Review and assess the content, suitability and accuracy of the information presented in the KADP-EIAR and KADP-EIAR Addendum;
- Assess the scientific rigour of the assessments of potential interaction and impacts, including a determination as to whether conclusions are reasoned and justifiable;
- Consider the suitability and effectiveness of mitigation proposed to avoid, reduce or remedy potential impacts; and
- Assess compliance of the activities proposed for the KADP comprising Consent Application No. 2, the KADP-EIAR and the supporting KADP-EIAR Addendum with the objectives and requirements of the EIA Directive and associated implementing national regulations.

This technical review and assessment of the KADP-EIAR and the supporting KADP-EIAR Addendum has been undertaken with regard to the following legislation, guidance and departmental circulars:

Legislation

- Petroleum and Other Minerals Development Act, 1960 (as amended);
- Petroleum and Other Minerals Development Act, 1960 (Section 13A) Regulations, 1990 (S.I. 141/1990);
- European Union Directive on assessment of the effects of certain public and private projects on the environment (Environmental Impact Assessment) Directive (2011/92/EU) and as amended by Directive 2014/52/EU;
- European Union (Environmental Impact Assessment) (Petroleum Exploration) Regulations 2013 (S.I. No 134/2013);
- European Union (Environmental Impact Assessment) (Petroleum Exploration) (Amendment) Regulations 2019 (S.I. No. 124/2019);
- European Union (Environmental Impact Assessment and Appropriate Assessment) (Foreshore) Regulations 2014 (S.I. No 544/2014);
- European Union (Planning and Development)(Environmental Impact Assessment) Regulations 2018 (S.I. No 544/2014); and
- The Planning and Development Act 2000-2017; and
- European Communities (Birds and Natural Habitats) Regulations (S.I. 477/2011) as amended.

⁸ Decommissioning Plan - Kinsale Head Petroleum Lease (OPL 1) - Consent Application No. 2 available at https://www.dccae.gov.ie/documents/PSE%20Kinsale%20Decommissioning%20Plan_Kinsale%20Head%20No2.pdf

Guidance

- Environmental Protection Agency (EPA) Guidelines on the information to be contained in Environmental Impact Statements (EPA, 2002);
- EPA Advice Notes on Current Practice (in the preparation of Environmental Impact Statements) (EPA, 2003);
- EPA Guidelines on the Information to be contained in Environmental Impact Assessment Reports (EPA, Draft August 2017);
- European Union Guidance on the preparation of the Environmental Impact Assessment Report (Directive 2011/92/EU as amended by 2014/52/EU) (EU, 2017); and
- Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment (DHPLG, 2018)

Departmental Circulars

- Compliance Conditions in respect of Developments requiring (1) Environmental Impact Assessment (EIA); or (2) having potential impacts on Natura 2000 sites (DEHLG Circular Letter PD 2/07 and NPWS 1/07);
- Implementation of Directive 2014/52/EU on the effects of certain public and private projects on the environment (EIA Directive) (DHPLG Circular letter PL 1/2017); and
- Transposition into Planning Law of 2014 EIA Directive and Revised EIA Guidelines (DHPLG Circular Letter PL 05/2018).

3 METHODOLOGY

3.1 Overview

The European Union *Guidance on the preparation of the Environmental Impact Assessment Report* (EU, 2017) provides guidance to project proponents on the information to be included in EIARs and acts as a guide to Competent Authorities in the review and evaluation of the EIARs. Specifically, the EU Guidance includes a review checklist that may be used by competent authorities when reviewing EIARs to assess the adequacy of the report to meet the requirements of the EIA Directive. The Review Checklist includes an examination, analysis and evaluation of the direct, indirect, secondary and cumulative effects of the proposed development on the following environmental aspects:

- population and human health,
- biodiversity,
- land, soil, water, air and climate,
- material assets,
- cultural heritage and
- the landscape;
- the interaction between the above listed aspects; and
- an examination, analysis and evaluation of the expected direct and indirect significant effects on the environment derived from the vulnerability of the proposed development to risks of major accidents or disasters, or both major accidents and disasters, that are relevant to that development.

RPS has undertaken the review and assessment of the KADP-EIAR, KADP-EIAR Addendum and supporting information in accordance with the review checklist which is included in **Appendix A** of this report.

For quick reference the review checklist questions are coded using the colour system outlined in **Table 1** below. Discussion on the assessment and conclusions are presented in **Section 4** below.

Table 1 Review Question Colour Code System

Review Question Colour	Relevant to Project (Yes/ No)	Assessment of Adequacy	KEL Action Required
Green	Yes	Adequately Addressed	No further information required
Yellow	Yes	Partially Addressed	Further information required
Red	Yes	Not Addressed	Further information required
Grey	No	-	-

3.2 Third Party Submissions

A public consultation process was undertaken by DCCAE following the submission of the KADP application. 2 no. submissions were received by the closing date for submissions, 13th September 2019. A commentary on whether or not the issue raised in the third party submission was satisfactorily addressed in the application documentation or if further information is required from the applicant to address the issues is provided in **Appendix B**.

4 DISCUSSION AND CONCLUSION

4.1 Discussion

The assessment of compliance of the KADP with the objectives and requirements of the EIA Directive and associated implementing national regulations, took into account the following reports and supporting information that formed part of the Kinsale Energy consent application package⁴:

- KADP-EIAR;
- KADP- EIAR Addendum;
- KADP AA Screening Report;
- KADP AA Screening Addendum; and
- Seven Heads Decommissioning Plan and the Kinsale Head Decommissioning Plan.

The assessment also took into consideration consultation responses and written submissions and observations made to the DCCAE in relation to the application for consent.

The KADP EIAR was also assessed for compliance with recent case law namely Case C-461/17 Holohan v. An Bord Pleanála, in particular Case Ruling No. 4 and No. 5.

Ruling No. 4 states that the *developer is obliged to supply information that expressly addresses the significant effects of its project on all species identified in the statement that is supplied pursuant to those provision.*

RPS's technical review has concluded that the submitted EIAR and EIAR addendum submitted with Consent Application No.2, provide adequate information to inform the assessment of environmental impact on habitats and species.

Ruling No. 5 of Case C-461/17 states that Article 5(3)(d) of Directive 2011/92 relates to the assessment of alternatives and must be interpreted as meaning *that the developer must supply information in relation to the environmental impact of both the chosen option and of all the main alternatives studied by the developer, together with the reasons for his choice, taking into account at least the environmental effects, even if such an alternative was rejected at an early stage.*

Descriptions of the alternatives considered to the KADP are outlined in the Comparative Assessment Report included in Appendix E of the KADP EIAR. The Comparative Assessment Report provides details on the various alternatives studied by the applicant, which are relevant to the proposed development and the rationale applied in selecting the chosen option, taking into account a comparison of the environmental effects. This information provides adequate information to allow the assessment of alternatives to be undertaken.

4.2 Conclusion

Under the EIA Directive 2011, as amended by the EIA Directive 2014, Article 8(a) introduces a new provision regarding the information to be incorporated into a grant of development consent as follows:

- The reasoned conclusion of the competent authority on the significant effects on the environment;
- Any environmental conditions attached;
- A description of any features and measures envisaged to avoid, prevent or reduce and, if possible, offset significant adverse effects on the environment; and
- Monitoring measures, where appropriate.

RPS conducted an examination, analysis and evaluation of the information contained in the KADP-EIAR, KADP-EIAR Addendum, supporting documents and information received through consultations, and submissions and observations made to the DCCAE. It is the opinion of RPS, that the KADP application documentation identifies and describes adequately the direct, indirect, secondary and cumulative effects of the proposed development on the environment.

RPS considered that the main significant direct and indirect effects of the proposed development on the environment are, and will be mitigated as follows:

- The impacts of the physical presence in field and in transit of supply vessels, barge/or heavy lift vessels and drilling rig will be minimised, and all activities will be undertaken in adherence to relevant legally required standards and controls.
- Potential significant negative effects from physical disturbance from the decommissioning including seabed disturbance will be mitigated by appropriate management measures.
- Potential effects arising from underwater noise will be mitigated through careful activity phasing to minimise vessel days and associated noise emissions.
- Potential impacts to known cultural heritage features will be avoided during all ground and seabed disturbance activities. Measures to deal with unexpected discoveries are outlined in the draft Environmental Management Plan and additional measures to ensure no significant adverse effect on Cultural Heritage receptors are provided in the Environmental Conditions.
- Potential discharges to sea will be minor and will be subject to regulatory and policy controls including MARPOL and PUDAC.
- Waste will be managed in accordance with relevant waste legislation and measures outlined in the draft Resource and Waste Management Plan.
- To minimise potential effects from accidental events associated with the offshore decommissioning works, all activities will be undertaken in accordance with regulatory and policy controls.
- Measures envisaged to avoid, prevent or reduce and offset significant adverse effects on the environment are outlined in full in the draft Environmental Management Plan and the monitoring programme presented in Appendix B of the draft Environmental Management Plan.

4.3 Environmental Conditions

If the DCCAE are minded to grant consent for Consent Application No. 2, the decommissioning of the platform jackets, the following conditions are recommended:

- A detailed Environmental Management Plan for the decommissioning of the platform jackets is to be submitted by the operator based on the draft Environmental Management Plan, which will be provided to DCCAE for approval in advance of works commencing. Final approval of the EMP for the works associated with Consent Application No.2 lies with the DCCAE.
- A detailed Resource and Waste Management Plan for the decommissioning of the platform jackets is to be submitted by the operator based on the draft Resource and Waste Management Plan and will be provided to DCCAE for approval in advance of works commencing. Final approval of the RWMP for the works associated with Consent Application No.2 lies with the DCCAE.
- The Environmental Management Plan must include conditions relating to Cultural Heritage as outlined below where these conditions are relevant to the decommissioning of the platform jackets:
 - The services of a suitably qualified and suitably experienced maritime archaeologist is engaged to undertake agreed monitoring of the decommissioning works on the foreshore or at sea for works that are less than 300m from known wreck sites.

- The applicant shall engage with the archaeologist by providing specifications in advance of the proposed decommissioning works, to allow the archaeologist to determine any mitigation strategies that may need to be put in place to protect identified shipwreck remains. In particular, and if relevant, the wrecks, including the UC-42, that are in closest proximity to the decommissioning works (including any impacts from plant and machinery), shall have an exclusion zone imposed to ensure there is no impacts on the known location of the wreck. The applicant shall be prepared to be advised by the consultant archaeologist in this regard.
- Provision shall be made to accommodate the monitoring archaeologist on board the decommissioning vessels to enable them to successfully carry out their work.
- The monitoring archaeologist shall have the power to have works suspended in a particular location or for a particular element of the decommissioning programme, should known or previously unknown cultural heritage, including underwater cultural heritage, be identified or impacted. The Underwater Archaeology Unit shall be contacted immediately in this event.
- The archaeological monitoring shall be licensed by the Department of Culture, Heritage and the Gaeltacht and a detailed method statement containing the monitoring strategy shall accompany the licence application.
- Upon completion of the archaeological monitoring, a detailed monitoring report shall be forwarded to the National Monuments Services' Underwater Archaeology Unit.

DCHG conditions (as stated in their submission dated 13th September 2019) relating to decommissioning activities at Inch terminal and the foreshore are not relevant to Consent Application No.2 and as such are not included above.

It is concluded that subject to the implementation of the mitigation measures proposed, as set out in KADP EIAR and the draft Environmental Management Plan, draft Resource and Waste Management Plan and subject to compliance with the conditions set out herein, the proposed KADP will not result in significant adverse effects on the environment.

It is noted that formal determination on the EIA is required will be made by the Minister for the DCCA. This determination will not be prejudiced by this review.

Appendix A

EIAR Review Checklist

Table A2: Description of the Project

The Objectives and Physical Characteristics of the Project

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.1	Are the Project's objectives and the need for the Project explained?	Yes	<p>Yes adequately addressed</p> <p>The application was submitted on 8 Aug 2019 seeking Minister consent for the decommissioning and the removal of the Kinsale Alpha and Kinsale Bravo platform sub-structures (jackets).</p> <p>The rationale for the KADP was outlined in:</p> <ul style="list-style-type: none"> • KADP Kinsale Head Decommissioning Plan • KADP-EIAR Non-Technical Summary (NTS) <ul style="list-style-type: none"> Section 1: Introduction Section 3.1: Existing Operations and Rationale for Decommissioning • KADP-EIAR <ul style="list-style-type: none"> Section 1.1 Introduction Section 1.2 Project Background Section 3.1.2 Rationale for Decommissioning • KADP-EIAR Addendum NTS <ul style="list-style-type: none"> Introduction • KADP-EIAR Addendum <ul style="list-style-type: none"> Section 1.1 Introduction • KADP AA Screening Report <ul style="list-style-type: none"> Section 1.1 Introduction Section 3.2 Project Background • KADP- AASR Addendum <ul style="list-style-type: none"> Section 1.1 Introduction and Background <p>Descriptions of the objectives of the KADP (including proposed decommissioning activities, options and the alternatives considered) are outlined in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR NTS 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Section 3.2.1 Consideration of Potential Alternative Uses Section 3.2.2 Decommissioning Alternatives Considered Section 3.2.3 Decommissioning Scope of Work</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 3.4 Decommissioning Alternatives Considered Section 3.5 Description of the Proposed Decommissioning Scope of Work • KADP AA Screening Report <ul style="list-style-type: none"> Section 3.4 Approach to Decommissioning • KADP Kinsale Head Decommissioning Plan <ul style="list-style-type: none"> Section 1.8 Objective of Decommissioning Project Section 3.3 Other Uses Considered Section 4 Decommissioning Options Section 5 Decommissioning Project Management Section 6 Decommissioning Activities and Schedule 	
<p>1.2</p>	<p>Is the programme for the Project's implementation described, detailing the estimated length of time (e.g. expected start and finish dates) for construction, operation, and decommissioning? (this should include any phases of different activity within the main phases of the Project, extraction phases for mining operations for example)</p>	<p>Yes</p>	<p>Yes adequately addressed</p> <p>An indicative project programme is shown in the Decommissioning Plan Section 6.2, Figure 14. KEL have confirmed that the timelines as stated in the Decommissioning Plan are the correct timeframes, i.e. removal by the end of 2022. The implementation for the project is also discussed in:</p> <ul style="list-style-type: none"> • KADP Kinsale Head Decommissioning Plan <ul style="list-style-type: none"> Section 1.8 Overview of Decommissioning Plan • KADP-EIAR NTS <ul style="list-style-type: none"> Section 3.2.5 Project Schedule and Activity Timing • KADP-EIAR <ul style="list-style-type: none"> Section 1.6 Overall Project Schedule Section 3.5.2.3 Jacket Removal • KADP AA Screening Report <ul style="list-style-type: none"> Section 3.5 Summary, Activity Timing and Phasing • KADP-EIAR Addendum 	<p>n/a</p>

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Appendix D Draft Environmental Management Plan</p> <p>The KADP draft Environmental Management Plan (EMP) is provided in Appendix D of the KADP-EIAR Addendum and identifies the minimum requirements with regard to the appropriate mitigation, monitoring, inspection and reporting mechanisms that need to be implemented throughout the decommissioning works. An Indicative Decommissioning Schedule is provided as Figure 4 to the Plan.</p> <p>Once contractors have been appointed, a final EMP will be prepared and submitted to the Competent Authority for review and approval.</p>	
1.3	Have all of the Project's main characteristics been described?	Yes	<p>Yes adequately addressed</p> <p>The main characteristics of the Projects have been described.</p> <p>Descriptions and inventories of the physical assets to be decommissioned are provided in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR NTS <ul style="list-style-type: none"> Section 3.1 Existing Operations and Rationale for Decommissioning • KADP-EIAR <ul style="list-style-type: none"> Section 3.2 Kinsale Area Facilities and Table 3.3. • AA Screening Report <ul style="list-style-type: none"> Section 3.3 Description of Existing Facilities • Kinsale Head Decommissioning Plan <ul style="list-style-type: none"> Section 1.7 Overview of Decommissioning Plan Section 2.2 Inventory of Facilities Section 4.1 Platform Jackets <p>Descriptions of the proposed decommissioning activities, options and the alternatives considered are outlined in:</p> <ul style="list-style-type: none"> • KADP-EIAR NTS <ul style="list-style-type: none"> Section 3.2.2 Decommissioning Alternative Considered Section 3.2.3 Decommissioning Scope of Work • KADP-EIAR <ul style="list-style-type: none"> Section 3.4 Decommissioning Alternative Considered Section 3.5 Description of the Proposed Decommissioning Scope of Work 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Appendix E Comparative Assessment</p> <ul style="list-style-type: none"> • AA Screening Report <ul style="list-style-type: none"> Section 3.4 Approach to Decommissioning • Kinsale Head Decommissioning Plan <ul style="list-style-type: none"> Section 4 Decommissioning Options Section 6 Decommissioning Activities and Schedule Section 7 Post Decommissioning Phase 	
1.4	Has the location of each Project component been identified, using maps, plans, and diagrams as necessary?	Yes	<p>Yes adequately addressed</p> <p>The location, layout and spatial extent of the physical assets comprising the Kinsale Area to be decommissioned are described in detail in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR NTS <ul style="list-style-type: none"> Section 3.1 Existing Operations and Rationale for Decommissioning • KADP-EIAR <ul style="list-style-type: none"> Section 3.2 Kinsale Area Facilities • AA Screening Report <ul style="list-style-type: none"> Section 3.3 Description of Existing Facilities • Kinsale Head Decommissioning Plan <ul style="list-style-type: none"> Section 2.2 Inventory of Facilities 	n/a
1.5	Is the layout of the site (or sites) occupied by the Project described? (including ground levels, buildings, other physical structures, underground works, coastal works, storage facilities, water features, planting, access corridors, boundaries)	Yes	<p>Yes adequately addressed</p> <p>See response to question 1.4</p>	n/a
1.6	For linear Projects, have the route corridor, the vertical, and horizontal alignment and any tunnelling and earthworks been described?	No	n/a	n/a
1.7	Have the activities involved in the construction of the Project (including land-use requirements) all been described?	No	n/a	n/a
1.8	Have the activities involved in the Project's operation (including land-use requirements and demolition works) all been described?	No	n/a	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

<p>1.9</p>	<p>Have the activities involved in decommissioning the Project all been described? (e.g. closure, dismantling, demolition, clearance, site restoration, site re-use, etc.)</p>	<p>Yes</p>	<p>Yes adequately addressed</p> <p>The KADP-EIAR provides a description of the scope of works and decommissioning options and activities identified for the KADP.</p> <p>Section 3.5.2.3 of the KADP-EIAR defines the scope of works comprising elements relevant to the KADP Consent Application No. 2, as follows:</p> <ol style="list-style-type: none"> 1. Separation of the jacket structures from pipelines and umbilicals 2. The removal of jacket structures to shore for recycling/disposal. 3. The removal of all subsea structures including the removal of connecting pipe spool pieces and control cables, and associated protection measures, with all recovered materials returned to shore for recycling/disposal. 4. The recovery of large items of debris and completion of a post-decommissioning survey to confirm success of the decommissioning operations. <p>Activities associated with items 1 - 4 above are described in detail in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR NTS Section 3.2 Approach to Decommissioning • KADP-EIAR Section 3.5 Description of the Proposed Decommissioning Scope of Work Appendix E Comparative Assessment Report • AA Screening Report Section 3.4 Approach to Decommissioning • Kinsale Head Decommissioning Plan Section 4 Decommissioning Options Section 6 Decommissioning Activities and Schedule • KADP-EIAR Addendum Appendix D Environmental Management Plan Appendix E Draft Resource and Waste Management Plan <p>The KADP draft EMP outlines the programme for environmental management during the Project. It outlines the implementation of proposed monitoring and mitigation measures as outlined in the KADP-EIAR and KADP-EIAR</p>	<p>n/a</p>
------------	--	-------------------	--	------------

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Addendum and the activities to be completed by the contractor. Roles and responsibilities are defined to ensure adequate development, implementation, maintenance and monitoring of environmental management. The procedures for communicating and reporting on environmental aspects of the proposed development throughout the decommissioning works, are also outlined.</p> <p>The draft Resource and Waste Management Plan outlines the management or removal of any structures or any wastes produced as part of the decommissioning stages of the Project.</p>	
1.10	Have any additional services, required for the Project, been described? (e.g. transport access, water, sewerage, waste disposal, electricity, telecoms)	Yes	<p>Yes adequately addressed</p> <p>See 1.9</p>	n/a
1.11	Are any developments likely to occur as a consequence of the Project identified? (e.g. new housing, roads, water or sewerage infrastructure, aggregate extraction)	Yes	<p>Yes adequately addressed</p> <p>While a number of potential re-uses of the Kinsale Area facilities are being investigated, currently no feasible re-use options have been identified. As a result it is currently proposed that the jackets will be fully decommissioned in line with the programme in the Decommissioning Plan, Figure 14.</p>	n/a
1.12	Have any existing activities that will alter or cease as a consequence of the Project been identified?	Yes	<p>Yes adequately addressed.</p> <p>The KADP will mark the end of all gas production activities at the Kinsale Area gas fields and onshore gas terminal. Detailed descriptions of current production activities that will cease are presented in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR NTS Section 3.1 Existing Operations and Rationale for Decommissioning • KADP-EIAR Section 3.1.1 History of Kinsale Area Section 3.2 Kinsale Area Facilities • AA Screening Report Section 3.3 Description of Existing Facilities 	n/a
1.13	Have any other existing or planned developments, with which the Project could have cumulative effects, been identified?	Yes	<p>Yes adequately addressed</p> <p>The potential for cumulative or transboundary effects associated with the KADP are considered in Sections 7.11 and 7.12 of the KADP-EIAR. With respect to the decommissioning of offshore facilities, the KADP-EIAR considered the following projects to be sources for potential cumulative effects:</p> <ul style="list-style-type: none"> • Existing projects: <ul style="list-style-type: none"> Oil and gas lease areas and potential offshore oil & gas related exploration activity Hibernia Atlantic "D" and Hibernia Express subsea cables 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Dredge disposal authorisations relating to the Port of Cork and Department of Defence</p> <p>Commercial shipping</p> <p>Fisheries</p> <ul style="list-style-type: none"> Planned projects <p>Ireland France subsea cable</p> <p>EirGrid Celtic interconnector</p> <p>Section 4.4 of the KADR-EIAR Addendum provides additional information on the assessment of cumulative effects to include the Barryroe oil discovery and shortlisted cable landfalls for the Celtic Interconnector and no cumulative effects are predicted.</p>	
1.14	Has the 'whole Project' been described, e.g. including all associated/ancillary works?	Yes	<p>Yes adequately addressed</p> <p>See response to review question 1.9</p>	n/a
1.15	Are any activities described as part of the 'whole Project' excluded from the assessment? Are such exclusions justified? (e.g. associated/ancillary activities can be included either because they fall under the scope of the Directive (Annex I or II) or because they can be considered as an integral part of the main infrastructure works using the 'centre of gravity test'. Guidance on associated and ancillary works has been published by the European Commission in an Interpretation Line available: here	Yes	<p>Yes adequately addressed</p> <p>See response to review question 1.9</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

The Size of the Project

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.16	Is the area of land occupied by each of the permanent Project components quantified and shown on a scaled map? (including any associated access arrangements, landscaping, and ancillary facilities)	Yes	See response to review question 1.4.	n/a
1.17	Has the area of land required temporarily for construction been quantified and mapped?	No	n/a	n/a
1.18	Is the reinstatement and after-use of the land occupied temporarily for the operation of the Project described? (e.g. land used for mining or quarrying)	Yes	Yes adequately addressed. The KADP-EIAR describes the removal of the platform jackets The Kinsale Alpha (KA) and Kinsale Bravo (KB) platform jacket legs will be cut from their pile foundations at or below seabed level and removed to shore for recycling and disposal. This was confirmed by KEL in a letter to DCCAE dated 12 th November 2019. Therefore, the possibility of sections of the legs remaining exposed above the seabed and requiring rock-cover, referred to in Section 6.1.1. of the Decommissioning Plan and Section 7.3.2 of the KADP-EIAR, no longer applies.	n/a
1.19	Has the size of any structures or other works developed as part of the Project been identified? (e.g. the floor area and height of buildings, the size of excavations, the area or height of planting, the height of structures such as embankments, bridges or chimneys, the flow or depth of water)	Yes	Yes adequately addressed. See response to review question 1.4.	n/a
1.20	Has the form and appearance of any structures or other works developed as part of the Project been described? (e.g. the type, finish, and colour of materials, the architectural design of buildings and structures, plant species, ground surfaces, etc.)	Yes	Yes adequately addressed. See response to review question 1.18	n/a
1.21	For urban or similar development Projects, have the numbers and other characteristics of new populations or business communities been described?	No	n/a	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.22	For Projects involving the displacement of people or businesses, have the numbers and other characteristics of those displaced been described?	No	n/a	n/a
1.23	For new transport infrastructure or Projects that generate substantial traffic flows, has the type, volume, temporal pattern, and geographical distribution of new traffic generated or diverted as a consequence of the Project been described?	No	n/a	n/a

Production Processes and Resources Used

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.24	Have all of the processes involved in operating the Project been described? (e.g. manufacturing or engineering processes, primary raw material production, agricultural or forestry production methods, extraction processes)	Yes	Yes adequately addressed See response to review questions 1.2 and 1.9.	n/a
1.25	Have the types and quantities of outputs produced by the Project been described? (these could be primary or manufactured products, goods such as power or water or services such as homes, transport, retailing, recreation, education, municipal services (water, waste, etc.)	Yes	Yes adequately addressed The KADP will mark the end of all gas production activities at the Kinsale Area gas fields and the only type of outputs anticipated as a result of the project is waste including: <ul style="list-style-type: none"> • Steel • Concrete • Hydrocarbons • Non-ferrous Metal in Anodes • Asbestos • Other Hazardous Waste e.g. batteries, hydraulic fluids etc • Other Non-hazardous Wastes e.g. copper and plastic from cabling, marine growth etc. 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
			<p>The types and quantities of the waste anticipated are described in the following:</p> <ul style="list-style-type: none"> • Decommissioning Plan – Consent Application no. 2 Section 6.3 Materials and Waste Management • KADP-EIAR NTS Section 3.2.4 Waste Generated • KADP-EIAR Section 3.5.6 Inch Terminal Section 3.5.7 Waste Generated Appendix E Comparative Assessment • AA Screening Report Section 3.4 Approach to Decommissioning • KADP-EIAR Addendum Appendix E Draft Resource and Waste Management Plan <p>A draft Resource and Waste Management Plan has been developed that describes the minimum standards for waste management that the contractor(s) must apply during the decommissioning works. A detailed Resource and Waste Plan will be prepared by the contractor(s) based on the draft RWMP and will be provided to DCCAЕ for approval by the Minister prior to commencement of the decommissioning works.</p>	
1.26	Have the types and quantities of resources, e.g. natural resources (including water, land, soil, and biodiversity), raw materials, and energy needed for construction and operation been discussed?	Yes	<p>Yes adequately addressed</p> <p>The main natural resources and raw materials required by the KADP include:</p> <ul style="list-style-type: none"> • water (freshwater and seawater) • fuel for power generation • soil • selected chemicals <p>The water and fuel resources required and the environmental implications of these resources are adequately addressed.</p> <ul style="list-style-type: none"> • KADP-EIAR NTS 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
			<p>Section 7.6 Discharges to Sea Section 7.8 Energy Use and Atmospheric Emissions Section 7.10 Accidental Events</p> <ul style="list-style-type: none"> • KADP-EIAR <p>Section 7.6 Discharges to Sea Section 7.8 Energy Use and Atmospheric Emissions Section 7.10 Accidental Events.</p>	
1.27	Have the environmental implications of the sourcing of resources, e.g. natural resources (including water, land, soil and biodiversity), raw materials, and energy been discussed?	Yes	<p>Yes adequately addressed</p> <p>See response to review question 1.26.</p>	n/a
1.28	Have efficiency and sustainability in use of resources, e.g. natural resources (including water, land, soil and biodiversity), raw materials, and energy been discussed?	Yes	<p>Yes adequately addressed.</p> <p>Section 7.8.1.2 of the KADP-EIAR considers the net benefit with respect to environmental CO₂ emissions from recycling waste material generated/ recovered as part of the decommissioning programme.</p> <p>Section 1.2.3 of the Draft Resource and Waste Management Plan, Appendix E of KADP-EIAR Addendum, discusses the European Commission Circular Economy Strategy (2015) and the principles of same will be applied to the waste generated from the KADP where practicable.</p>	n/a
1.29	<p>Have any hazardous materials used, stored, handled or produced by the Project been identified and quantified?</p> <ul style="list-style-type: none"> • during construction; • during operation; • during decommissioning. 	Yes	<p>Yes adequately addressed</p> <p>The KADP-EIAR outlines that standard operational controls will be in place for the management of hazardous materials with all materials to be handled by a licensed operator and disposed of at licensed facilities in accordance with relevant waste legislation.</p> <p>The use, storage, handling or production of hazardous materials is discussed in the Draft Resource and Waste Management Plan, Appendix E of KADP-EIAR Addendum.</p>	n/a
1.30	<p>Has the transportation of resources, including natural resources (including water, land, soil, and biodiversity) and raw materials to the Project site, and the number of traffic movements involved, been discussed? (including road, rail and sea transport)</p> <ul style="list-style-type: none"> • during construction; 	Yes	<p>Yes adequately addressed.</p> <p>The transportation of resources and raw materials has not been discussed in detail, however, significant effects associated with traffic movements are not anticipated as the project is largely located offshore and will be undertaken over a long period of time (years).</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
	<ul style="list-style-type: none"> during operation; during decommissioning. 		Waste transportation is discussed in Section 5 of the Draft Resource and Waste Management Plan, Appendix E of KADP-EIAR Addendum,	
1.31	<p>Have the Project's environmentally relevant social and socio-economic implications been discussed? Will employment be created or lost as a result of the Project, for instance?</p> <ul style="list-style-type: none"> during construction; during operation; during decommissioning. 	Yes	<p>Yes adequately addressed.</p> <p>A Comparative Assessment was undertaken to assess the feasibility of options for decommissioning the Kinsale Area pipelines, subsea infrastructure, umbilicals and associated protection materials. Criteria categories for evaluating the potential impact of the various options include safety, environment, technical feasibility, society and costs.</p> <p>Details of the Comparative Assessment process is presented in the following:</p> <ul style="list-style-type: none"> KADP-EIAR Appendix E Comparative Assessment Report 	n/a
1.32	<p>Have the access arrangements and the number of traffic movements involved in bringing workers and visitors to the Project been estimated?</p> <ul style="list-style-type: none"> during construction; during operation; during decommissioning. 	Yes	<p>Yes adequately addressed.</p> <p>Significant effects of traffic movements are not anticipated as the project is largely located offshore and will be undertaken over a long period of time (years).</p>	n/a
1.33	<p>Has the housing and provision of services for any temporary or permanent employees for the Project been discussed? (this is relevant for Projects that require the migration of a substantial, new workforce into the area, either for construction or in the long term)</p>	No	n/a	n/a

Residues and Emissions

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.34	<p>Have the types and quantities of solid waste generated by the Project been identified?</p> <p>(including the construction or demolition of wastes, surplus spoil, process wastes, by-products, surplus or reject products, hazardous wastes, household or commercial wastes, agricultural or forestry wastes, site clean-up wastes, mining wastes, decommissioning wastes)</p> <ul style="list-style-type: none"> • during construction; • during operation; • during decommissioning. 	Yes	<p>Yes adequately addressed</p> <p>Addressed through the following documents:</p> <ul style="list-style-type: none"> • Decommissioning Plan – Consent Application no. 2 Section 6.3 Materials and Waste Management • KADP-EIAR NTS Section 3.2.4 Waste Generated Section 7.6 Discharges to Sea Section 7.7 Waste: Materials Recycling, Reuse and Disposal Section 7.10 Accidental Events • KADP-EIAR Section 3.5.6 Inch Terminal Section 3.5.7 Material Generated Section 7.7 Waste: Materials Recycling, Reuse and Disposal Section 7.10 Accidental Events • AA Screening Report Section 3.4 Approach to Decommissioning • KADP-EIAR Addendum Appendix D – Environmental Management Plan Appendix E – Resource and Waste Management Plan. <p>The draft Resource and Waste Management Plan outlines the options for waste transport, treatment, storage and disposal and/ or recycling. The Resource and Waste Management Plan also details the responsibilities of the contractors to manage environmental issues through appropriate risk management, mitigation, auditing, licensing and monitoring and will be required to ensure compliance with legislative and commercial standards manage potential risk of impacts. Once contractors have been appointed, a final WMP will be prepared and submitted to the Competent Authority for review and approval.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.35	Have the composition and toxicity, or other hazards from all solid wastes produced by the Project, been discussed?	Yes	Yes adequately addressed See response to review question 1.34.	n/a
1.36	Have the methods for collecting, storing, treating, transporting, and finally disposing of these solid wastes been described?	Yes	Yes adequately addressed See response to review question 1.34.	n/a
1.37	Have the locations for the final disposal of all solid wastes been discussed, in consideration with the Waste Management Plan(s) concerned??	Yes	Yes adequately addressed See response to review question 1.34.	n/a
1.38	Have the types and quantities of liquid effluents generated by the Project been identified? (including site drainage and run-off, process wastes, cooling water, treated effluents, sewage) <ul style="list-style-type: none"> • during construction; • during operation; • during decommissioning. 	Yes	Yes adequately addressed Discharges of liquid effluent (including fuel/lubricants/surfactants, drainage, sewage and other discharges from ships) arising from the proposed decommissioning activities are adequately addressed in the following documents: <ul style="list-style-type: none"> • KADP-EIAR NTS <ul style="list-style-type: none"> Section 7.6 Discharges to Sea Section 7.10 Accidental Events • KADP-EIAR <ul style="list-style-type: none"> Section 7.6 Discharges to Sea Section 7.10 Accidental Events • KADP-EIAR Addendum <ul style="list-style-type: none"> Section 4.7.2 Discharges <p>It is noted that discharges from vessels will be subject to controls under MARPOL. Inventories (e.g. diesel, chemical) will be retained and returned to shore, recycled or sent to landfill.</p>	n/a
1.39	Have the composition and toxicity or other hazards of all liquid effluents produced by the Project been discussed?	Yes	Yes adequately addressed See response to review question 1.38.	n/a
1.40	Have the methods for collecting, storing, treating, transporting, and finally disposing of these liquid effluents been described?	Yes	Yes adequately addressed See response to review question 1.38.	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.41	Have the locations for the final disposal of all liquid effluents been discussed?	Yes	Yes adequately addressed See response to review question 1.38.	n/a
1.42	Have the types and quantities of gaseous and particulate emissions generated by the Project identified? (including process emissions, fugitive emissions, emissions from combustion of fossil fuels in stationary and mobile plant, emissions from traffic, dust from materials handling, odours) <ul style="list-style-type: none"> • during construction; • during operation; • during decommissioning. 	Yes	Yes adequately addressed Atmospheric emissions associated with offshore energy production and decommissioning activity is adequately addressed in the following: <ul style="list-style-type: none"> • KADP-EIAR NTS Section 7.8 Energy Use and Atmospheric Emissions • KADP-EIAR Section 7.8 Energy Use and Atmospheric Emissions Vehicle and dust emissions associated with onshore decommissioning activities are considered in Appendix D to the KADP-EIAR.	n/a
1.43	Have the composition and toxicity or other hazards of all of emissions to the air produced by the Project been discussed?	Yes	Yes adequately addressed See response to review question 1.42	n/a
1.44	Have the methods for collecting, treating, and finally discharging these emissions to the air described?	No	n/a	n/a
1.45	Have the locations for discharge of all emissions to the air been identified and have the characteristics of the discharges been identified? (e.g. height of stack, velocity and temperature of release)	Yes	Yes adequately addressed. See response to review question 1.42	n/a
1.46	Have the methods for capturing, treating, and storing these emissions been described?	No	n/a	n/a
1.47	Have the locations for the storage of all emissions identified and the characteristics of the storage unit been identified? (e.g. type of storage unit, storing capacity, methods used)	No	n/a	n/a
1.48	Has the potential for resource recovery from wastes and residues been discussed? (including re-use, recycling or energy recovery from solid waste and liquid effluents)	Yes	Yes adequately addressed. Recycling and reuse of material is discussed in the following: <ul style="list-style-type: none"> • KADP-EIAR NTS Section 7.7 Waste: Materials Recycling, Reuse and Disposal 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
			<ul style="list-style-type: none"> KADP-EIAR <p>Section 7.7 Waste: Materials Recycling, Reuse and Disposal</p>	
1.49	Have any sources of noise, heat, light or electromagnetic radiation from the Project been identified and quantified? (Including equipment, processes, construction works, traffic, lighting, etc.)	Yes	<p>Yes adequately addressed.</p> <p>Potential environmental effects of light and noise associated with the Project are described and assessed in Appendix D to the KADP-EIAR.</p>	n/a
1.50	Have the methods for estimating the quantities and composition of all residues and the emissions identified and any difficulties discussed?	Yes	<p>Yes adequately addressed.</p> <p>See response to review question 1.42.</p>	n/a
1.51	Have the uncertainty attached to estimates of residues and emissions been discussed?	Yes	<p>Yes adequately addressed.</p> <p>See response to review question 1.42.</p>	n/a

Risks of Accidents and Hazards

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.52	<p>Have any of the risks associated with the Project been discussed?</p> <ul style="list-style-type: none"> risks from handling of hazardous materials; risks from spills fire, explosion; risks of traffic accidents; risks from breakdown or failure of processes or facilities; risks from exposure of the Project to natural disasters (earthquake, flood, landslide etc.). 	Yes	<p>Yes adequately addressed</p> <p>Accidental events that may occur as a result of the KADP include:</p> <ul style="list-style-type: none"> accidental release of fuel/lubricants <p>The KADP-EIAR Section 7.10 deals with Accidental Events and considers potential effects that could result from accidents and states that air quality may be affected by the following:</p> <ul style="list-style-type: none"> Atmospheric Emissions: <ul style="list-style-type: none"> Emissions associated with power generation, fugitive emissions from fuel and chemical storage, and venting. Power/ fuel usage associated with material recycling Accidental events: <ul style="list-style-type: none"> Accidental releases to atmosphere including gas emissions from accidental spills of fuel/ lubricants and chemical spills. Accidental discharge of chemicals and emissions from the platforms, vessels, and dropped objects. 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.53	Have the measures to prevent and respond to accidents and abnormal events been described? (preventive measures, training, contingency plans, emergency plans, early-warning systems, etc.)	Yes	Yes adequately addressed KADP-EIAR Addendum D Draft Environmental Management Plan contains an Emergency Incident Response Plan which addresses accidents and abnormal events Accidental Events are also addressed in Section 5.2 of the KADP-EIAR Addendum	n/a
1.54	Is there a plan in place detailing the preparedness for an emergency (e.g. suggested as part of the EIA Report's Mitigation measures)?	Yes	Yes adequately addressed See response to review question 1.53.	n/a
1.55	Is this plan in line with other EU legislation requirements, in particular Article 12 of the Seveso Directive (Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances) which refers to emergency plans?	No	n/a Kinsale Area facilities are not listed in the upper or lower tier of the Notified Seveso Establishments.	n/a

Other Questions on Description of the Project

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
1.56	Have any of the risks of impact from noise generating activities associated the Project been discussed?	Yes	Yes adequately addressed. Noise from associated decommissioning activities has the potential to result in in environmental effects. Description of the ambient and anticipated project noise is presented in the following: <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 4.3.1 Ambient underwater noise Section 5.6 Noise and Vibration • AA Screening Report <ul style="list-style-type: none"> Underwater Noise and Vibration 	n/a

Section 2: Descriptions of Environmental factors likely to be affected by the Project

The Objectives and Physical Characteristics of the Project

Baseline: Aspects of the Environment

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
2.1	Have the existing land uses on the land to be occupied by the Project and the surrounding area described and are any people living on or using the land been identified? (including residential, commercial, industrial, agricultural, recreational, and amenity land uses and any buildings, structures or other property)	Yes	<p>Yes adequately addressed</p> <p>The scope of works comprising elements relevant to the KADP Consent Application No. 2 are offshore. The offshore environment supports a variety of activities including fisheries, offshore energy, ports and shipping, military activity, subsea cables, marine disposal and recreation and tourism. Descriptions of activities in the marine environment are presented in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 4.5.1 Offshore Energy Section 4.5.2 Ports and shipping Section 4.5.3 Commercial Fisheries Section 4.5.4 Military activity Section 4.5.5 Subsea Cables Section 4.5.6 Aggregates Section 4.5.7 Marine disposal Section 4.5.8 Recreation and tourism <p>Descriptions of the offshore material assets (building, infrastructure property etc.) comprising the KADP are presented in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 3.2.1 Kinsale Head Development Section 3.5.2.3 Jacket Removals • Kinsale Head Decommissioning Plan <ul style="list-style-type: none"> Section 1.7 Overview of Decommissioning Plan Section 2.2 Inventory of Facilities Section 4.1 Platform Jackets 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

2.2	Have the topography, geology and soils of the land to be occupied by the Project and the surrounding area been described?	Yes	<p>Yes adequately addressed</p> <p>Descriptions of terrestrial and marine topography, geology and soils in the vicinity of the KADP are presented in the following Sections of the KADP-EIAR:</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 4.1 Seabed Topography, Geology and Sediments Section 5.3.1 Soils and Sub-Soils Section 5.3.2 Bedrock Geology • KADP-EIAR Addendum <ul style="list-style-type: none"> Appendix B Kinsale Area Seabed Surveys (2002-2017) <p>The seabed survey information covering the period 2002-2017 was used to inform the assessment presented in the EIAR. The additional information is presented in the KADP-EIAR Addendum (Appendix B) includes a tabulation of survey scopes and methodologies, and a summary of the results for every survey.</p>	n/a
2.3	Have any significant features of the topography or geology of the area described and are the conditions and use of soils been described? (including soil quality stability and erosion, agricultural use and agricultural land quality)	Yes	<p>Yes adequately addressed</p> <p>The seabed topography, geology and sediments are discussed in the KADP EIAR Section 4.1.</p>	n/a
2.4	Has the biodiversity of the land/sea to be affected by the Project and the surrounding area been described and illustrated on appropriate maps?	Yes	<p>Yes adequately addressed</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 4.1 Seabed Topography, Geology and Sediments (Figure 4.4 Predicted seabed habitats) Section 4.4 Biodiversity (Marine Environment, Figures 4.7, 4.8, 4.9, 4.10, 4.11 and 4.12) • KADP-EIAR Addendum <ul style="list-style-type: none"> Section 3 Characteristics of the Marine Environment Appendix B Kinsale Area Seabed Surveys (2002-2017) 	n/a
2.5	Have the species (including their populations and habitats), and the habitat types that may be affected by the Project been described? (Particular attention should be paid to any species and habitats protected under the	Yes	<p>Yes adequately addressed</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 4.4 Biodiversity (Marine Environment, Figures 4.7, 4.8, 4.9, 4.10, 4.11 and 4.12) 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	Habitats and Birds Directives (Directives 92/43/EEC and 2009/147/EC).		<ul style="list-style-type: none"> KADP-EIAR Addendum <p>Section 3 Characteristics of the Marine Environment</p> <p>Appendix B Kinsale Area Seabed Surveys (2002-2017)</p> <p>According to the EUNIS habitat classification, the underlying habitat is circalittoral coarse sediment (Figure 4.4). From the benthic sampling and photographic surveys in the Kinsale Area there is no indication of sensitive species or habitats which would be subject to protection under the EU Habitats Directive (92/43/EEC) i.e. Annex I habitats in proximity to the proposed works. Clarification has been provided as to the different surveys used for the EIAR, details of each survey are included in Appendix B of KADP-EIAR Addendum.</p>	
2.6	Have the Natura 2000 sites that may be affected by the Project been described?	Yes	<p>Yes adequately addressed</p> <p>In the KADP-EIAR, Section 4.4.8 considers Natura 200 sites that may be affected by the KADP.</p> <p>The EIAR uses a 100 km zone of influence (ZOI). A total of 15 SACs and 15 SPAs are located within the ZOI. For each site the distance from each of the following is provided: 1) Subsea wells Summary of features & other subsea structures, 2) Offshore pipelines and 3) Offshore platforms.</p> <p>Table 4.5 of the KADP EIAR provides some detail of the qualifying interests (species and habitats) for which the SACs and SPAs are designated.</p> <p>The KADP AA Screening Report Addendum provides additional information on the designated sites within the zone of influence.</p>	n/a
2.7	Has the water environment of the area been described? (including reference to any River Basin Management Plans/Programme of Measures under the WFD, running and static surface waters, groundwaters, estuaries, coastal waters and the sea and including run off and drainage. N.B. not relevant if water environment will not be affected by the Project)	Yes	<p>Yes adequately addressed</p> <p>The marine water environment is described in the following:</p> <ul style="list-style-type: none"> KADP-EIAR <p>Section 4.3 Oceanography, Hydrography and Water Quality</p> <p>Section 4.3.1 Ambient underwater noise</p> <p>Section 4.3 provides a high level summary of the oceanography and hydrography off the Irish south coast. Section 4.3 also describes levels of non-synthetic chemicals and synthetic contamination, eutrophication and ambient anthropogenic underwater noise.</p> <p>Section 4.8 of the KADP-EIAR outlines that for 2010 – 2012 the ecological status of the western Celtic Sea waterbody along the Cork coast, and status of coastal water bodies, bathing waters and shellfish production area nearby the Project site.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

2.8	Have the hydrology, water quality, and use of any water resources that may be affected by the Project been described? (including any River Basin Management Plans/Programme of Measures under the WFD, use for water supply, fisheries, angling, bathing, amenity, navigation, effluent disposal)	Yes	<p>Yes adequately addressed</p> <p>See response to review question 2.7</p>	n/a
2.9	Have local climatic and meteorological conditions in the area been described? (N.B. not relevant if the atmospheric environment will not be affected by the Project)	Yes	<p>Yes adequately addressed</p> <p>The climatic and meteorological conditions are described in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 4.2 Climate, Meteorological and Air Quality Section 5.5.1 Air quality Section 5.4.2 Climate 	n/a
2.10	Has existing air quality in the area been described, including, where relevant, limit values set out by Directives 2008/50/EC and 2004/107/EC as well as relevant Programmes adopted under this legislation? (N.B. not relevant if the ambient air will not be affected by the Project)	Yes	<p>Yes adequately addressed</p> <p>In Ireland the EU Directive (2008/50/EC) on ambient air quality and cleaner air for Europe is implemented via the Air Quality Standards Regulations, 2011 (S.I. No 180 of 2011). The Environmental Protection Agency (EPA) measures the levels of a number of atmospheric pollutants throughout Ireland in order to measure compliance with Air Quality Standards Regulations, 2011 (S.I. No 180 of 2011). For the purposes of monitoring in Ireland, four zones are defined in the Regulations:</p> <ul style="list-style-type: none"> • Zone A: Dublin Conurbation • Zone B: Cork Conurbation • Zone C: Other Cities and Large Towns • Zone D: Rural Ireland which is the remainder of the State excluding Zones A, B and C. <p>Section 5.5.1 of the KADP-EIAR indicates that the project is located in Zone D and presents monitoring data for years 2013-2015.</p>	n/a
2.11	Has the existing noise climate been described, including, where relevant, reference to noise maps and actions plans set out by the Environmental Noise Directive (2002/49/EU)? (N.B. not relevant if acoustic environment will not be affected by the Project)	Yes	<p>Yes adequately addressed</p> <p>Noise from associated decommissioning activities has the potential to result in environmental effects.</p> <p>Description of the ambient and anticipated project noise is presented in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Section 4.3.1 Ambient underwater noise</p> <p>Section 5.6 Noise and Vibration</p> <ul style="list-style-type: none"> • KADP-EIAR Addendum <p>Section 4.3 Underwater noise</p> <ul style="list-style-type: none"> • AA Screening Report <p>Underwater Noise and Vibration</p>	
2.12	Has the existing situation regarding light, heat, and electromagnetic radiation been described? (N.B. not relevant if these characteristics of the environment will not be affected by the Project)	Yes	<p>Yes adequately addressed</p> <p>Potential environmental effects of light associated with the Project are described and assessed in Appendix D to the KADP-EIAR.</p>	n/a
2.13	Have any material assets in the area that may be affected by the Project been described? (including buildings, other structures, mineral resources, water resources)	Yes	<p>Yes adequately addressed</p> <p>Descriptions of the offshore material assets (building, infrastructure property etc.) comprising the decommissioning of the platform jackets are presented in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Table 3.3 Section 3.5.2.3 Jacket Removal • Kinsale Head Decommissioning Plan <ul style="list-style-type: none"> Section 1.7 Overview of Decommissioning Plan Inventory of Facilities 	n/a
2.14	Have any locations or features of archaeological, historic, architectural or other community or cultural importance in the area that may be affected by the Project been described, including any designated or protected sites?	Yes	<p>Yes adequately addressed</p>	n/a
2.15	Has the landscape or townscape of the area that may be affected by the Project been described, including any designated or protected landscapes and any important views or viewpoints?	Yes	<p>Yes adequately addressed.</p> <p>The landscape and seascape in the area of the KADP was described cultural importance were described in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR <ul style="list-style-type: none"> Section 4.7 Landscape and Seascape Section 5.9.1 Landscape Character Type 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

		Section 5.9.2 View, Prospects and Scenic Routes		
2.16	Have the demographic, social and socio-economic conditions (e.g. employment) in the area been described?	Yes	<p>Yes adequately addressed</p> <p>While the detail of the demographic, social and socio-economic conditions of the area in the vicinity of the KADP have not been provided, the KADP-EIAR does provide summary accounts of the economic activities occurring in the offshore marine and onshore terrestrial environment (see response to review question 2.1 for further detail). In addition, a Comparative Assessment undertaken to assess the feasibility of options for decommissioning of the Kinsale Area facilities evaluate potential impact of options against a number of criteria including society and cost (see response to review question 1.31 for further detail).</p>	n/a
2.17	Have any future changes in any of the above aspects of the environment that may occur in the absence of the Project been described? (the so-called Dynamic Baseline)	No	<p>Note: The Kinsale Area facilities are operated in accordance with two petroleum leases. Under the terms of the leases it is a requirement that the facilities are decommissioned. Consequently, the do nothing scenario is not available to KADP (see Section 3.4.1 of the EIAR).</p>	n/a

Data Collection and Methods

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
2.18	Has the study area been defined widely enough to include all of the areas likely to be significantly affected by the Project?	Yes	<p>Yes adequately addressed.</p> <p>The KADP encompasses all physical assets within Kinsale Energy's two leasehold areas (i.e. the Kinsale Head gas fields and the Seven Heads gas field), the pipelines and umbilicals outside the leasehold areas, as well as the onshore gas metering terminal at Inch, Co. Cork. However, the subject of Consent Application No.2 relates to the decommissioning of the platform jackets only. The KADP-EIAR adequately considers the potential for proposed activities to result in potential impact to environmental receptors outside of the spatial footprint of the project, while the zone of influence (Zol) of the project considered in the AA Screening Report for offshore elements is 100 km. The AA Screening Report also considers potential interaction with wide ranging Annex IV species.</p>	n/a
2.19	Have all relevant national and local authorities been contacted to collect information on the Baseline environment?	Yes	<p>Yes adequately addressed</p> <p>The consultation carried out with statutory, non-statutory bodies and other interested parties to inform the scope of the EIAR is provided in Section 1.8 of the KADP-EIAR. A list of consultees are provided in the KADP-EIAR Appendix F.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

2.20	Have all the sources of data and information from existing databases, free services, and other relevant environmental assessments been investigated?	Yes	<p>A summary of consultations has also been provided in the KADP-EIAR Addendum, Appendix A.</p> <p>The KADP-EIAR provides overviews of the ecological, physical and socio-economic characteristics of the marine environment relevant to this KADP consent application.</p> <p>Specifically the marine environment is described in the KADP-EIAR Sections 4.1 to 4.8 and additional information is provided in the KADP-EIAR Addendum; the sources of data and information used to inform the sections are reviewed and assessed below.</p>	n/a
			<p>Population and human health</p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.8 Population and human health <p>Yes adequately addressed Detail provided to describe the baseline is sufficient.</p>	n/a
			<p>Biodiversity</p> <p><u>Plankton</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.4.1 Plankton <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Benthos</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.4.2 Benthos • KADP-EIAR Addendum Appendix B – Kinsale Area Seabed Surveys (2002-2017). <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Cephalopods</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.4.3 Cephalopods <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Fish and Shellfish</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.4.4 Fish and Shellfish <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	<p><u>Marine Reptiles</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.4.5 Marine Reptiles <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Birds</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.4.6 Birds <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Marine Mammals</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.4.7 Marine Mammals <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Conservation Sites and Species</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.4.8 Conservation Sites and Species <p>Natura 2000 sites that could be affected by the project are outlined in the following documents:</p> <ul style="list-style-type: none"> • KADP-EIAR • KADP-AA Screening Report • AA Screening Report Addendum 	
	<p>Land and Soil</p> <p><u>Seabed Topography, Geology and Sediments</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.1 Seabed Topography, Geology and Sediments KADP-EIAR Addendum Appendix B – Kinsale Area Seabed Surveys (2002-2017). <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p>	n/a
	<p>Water</p> <p><u>Oceanography, Hydrography and Water Quality</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.3 Oceanography, Hydrography and Water Quality <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

		<p>Air, Climate and Noise</p> <p><u>Climate, Meteorology and Air Quality</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.2 Climate, Meteorology and Air Quality <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Noise and Vibration</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.3.1 Ambient underwater noise <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p>	n/a
		<p>Material Assets</p> <p><u>Offshore Energy</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.5.1 Offshore Energy <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Ports and shipping</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.5.2 Ports and shipping <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Commercial Fisheries</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.5.3 Commercial Fisheries <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Military activity</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.5.4 Military activity <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Subsea Cables</u></p> <ul style="list-style-type: none"> • KADP-EIAR Section 4.5.5 Subsea Cables <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p><u>Aggregates</u></p> <ul style="list-style-type: none"> KADP-EIAR Section 4.5.6 Aggregates <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Marine disposal</u></p> <ul style="list-style-type: none"> KADP-EIAR Section 4.5.7 Marine disposal KADP-EIAR Addendum Appendix D Environmental Management Plan Appendix E Draft Resource and Waste Management Plan <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p> <p><u>Recreation and tourism</u></p> <ul style="list-style-type: none"> KADP-EIAR Section 4.5.8 Recreation and tourism <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p>	
			<p><u>Cultural Heritage</u></p> <ul style="list-style-type: none"> KADP-EIAR Section 4.6 Cultural Heritage KADP-EIAR Addendum Appendix C Cultural Heritage <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p>	n/a
			<p><u>Landscape</u></p> <ul style="list-style-type: none"> KADP-EIAR Section 4.7 Land and seascape <p>Yes adequately addressed - Detail provided to describe the baseline is sufficient.</p>	n/a
2.21	Have sources of data and information on the existing environment been adequately referenced?	Yes	<p>Yes adequately addressed</p> <p>See response to review question 2.20.</p>	n/a
2.22	Is justification provided about which particular existing datasets was (were) were relied upon, as opposed to others?	Yes	<p>Yes adequately addressed</p> <p>See response to review question 2.6.</p>	n/a
2.23	Where data collection has been undertaken to characterise the Baseline environment, have the methods used, any difficulties	Yes	<p>Yes adequately addressed</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	encountered, and any uncertainties been the data described?		The KADP-EIAR states that baseline surveys were undertaken to inform the identification of the baseline environmental. These surveys undertaken included marine seabed habitats, flora and fauna, and underwater archaeology. Specific details of the surveys undertaken are provided in the EIAR Addendum B - Kinsale Area Seabed Surveys (2002-2017)	
2.24	Were the methods used appropriate for the purpose?	Yes	Yes adequately addressed See response to review question 2.23.	n/a
2.25	Have the methods used to predict the impact of the Project on climate changes been described? (if relevant)	Yes	Yes adequately addressed The methods used to quantify sources of atmospheric Greenhouse Gas (GHG) emissions from the KADP and assess associated potential environmental impact are described KADP-EIAR. Specifically, Section 7.8.1.1 considered the quantities and likely effects of emissions arising from energy production during decommissioning operations while Section 7.8.1 considered quantities and likely effect of emissions associated with recycling material recovered as part of the KADP.	n/a
2.26	Have the methods used to predict climate change's impact on the Project been described?	Yes	Yes adequately addressed See response to review question 2.25	n/a
2.27	Is the uncertainty attached to the climate change evolution predictions discussed? (if relevant)	Yes	Yes adequately addressed See response to review question 2.25	n/a
2.28	Did you consider life cycle assessment of the Project to describe the Project's impact on climate change? (if relevant)	Yes	Yes adequately addressed See response to review question 2.25	n/a
2.29	Have any important gaps in the data on the existing environment/ evolution prediction identified (e.g. climate change), and the means used to deal with these gaps during the assessment, been explained?	Yes	Yes adequately addressed Gaps in data or difficulties encountered in compiling information are addressed in Section 1.4 of the KADP-EIAR Addendum.	n/a
2.30	Where data collection would be required to adequately characterise the Baseline environment, but they have not been practicable for any reason, are the reasons explained and have proposals been set out for the surveys to be undertaken at a later stage?	Yes	Yes adequately addressed Gaps in data or difficulties encountered in compiling information are addressed in Section 1.4 of the KADP-EIAR Addendum.	n/a

Section 3:

Scoping of Events

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
3.1	Has the process by which the scope of the information for the EIA Report defined been described? (for assistance, see the Scoping Guidance Document in this series)	Yes	Yes adequately addressed The scope of the EIAR is outlined in the KADP-EIAR Section 1.7	n/a
3.2	Is it evident that a systematic approach to Scoping has been adopted?	Yes	Yes adequately addressed The consultation carried out with statutory, non-statutory bodies and other interested parties to inform the scope of the EIAR is provided in Section 1.8 of the KADP-EIAR. A list of consultees are provided in the KADP-EIAR Appendix F. A Summary of Consultations has also been provided in the KADP-EIAR Addendum, Appendix A.	n/a
3.3	Was consultation carried out during Scoping?	Yes	Yes adequately addressed <ul style="list-style-type: none"> • KADP-EIAR Appendix F • KADP-EIAR Addendum Appendix A. 	n/a
3.4	Have the comments and views of consultees been presented?	Yes	Yes adequately addressed See Appendix A of KADP-EIAR Addendum.	n/a

Prediction of Direct Effects

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
3.5	Have the direct, primary effects on land uses, people, and property been described and, where appropriate, quantified?	Yes	The identification of potential significant effects on land uses, people, and property are described under the environmental factors Population & Human Health and Material Assets in Section 6 of the KADP EIAR, Table 6.2 and summarised in Table 6.3b. The consideration of potential significant effects on Population & Human Health and Material Assets are described in Section 7 of the KADP EIAR.	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>The KADP-EIAR states that Population & Human Health and Material Assets may be affected by the following:</p> <ul style="list-style-type: none"> • Physical presence: Decommissioning operations: Physical presence in field and in transit of supply vessels, barge/or heavy lift vessels. • Waste: Materials recycling, reuse and disposal: Offloading and storage/dismantling of offshore structures onshore, road transport and hazardous material handling. Solid and liquid wastes to shore, removal of hazardous materials, materials recycling, onshore waste treatment, landfill of residual waste/materials, hazardous material handling. • Accidental events: Dropped objects, vessel collision, accidental spills of fuel/lubricants. Effects on prey species of other animals (including those which are subject to legal protection), effects on fisheries resulting from effects on commercially relevant species, possible loss of tourism income. <p>Further information on the consideration of potential effects is provided in Section 4 and Table 7 of the KADP-EIAR Addendum.</p>	
3.6	Have the direct, primary effects on geological features and characteristics of soils been described and, where appropriate, quantified?	Yes	<p>Yes adequately addressed.</p> <p>The potential significant effects on Soils and Seabed are described under the environmental factor Land and Soil in Section 6 of the KADP EIAR, Table 6.2 and summarised in Table 6.3b.</p> <p>The consideration of potential significant effects on Land and Soil are described in Section 7 of the KADP EIAR.</p> <p>The KADP-EIAR states that Land and Soil may be affected by the following:</p> <ul style="list-style-type: none"> • Physical disturbance: Drill rig/ vessel positioning and anchoring. Removal of subsea structure (including mattress removal). • Discharges to sea: Cementing and other chemicals associated. Hydraulic fluid release. 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<ul style="list-style-type: none"> Accidental events: Dropped objects. Accidental spills of fuel/ lubricants. <p>Further information on the consideration of potential effects is provided in Section 4 and Table 7 of the KADP-EIAR Addendum.</p>	
3.7	<p>Have the direct, primary effects on biodiversity been described and, where appropriate, quantified? (if relevant, are references made to Natura 2000 sites? (Directive 2009/147/EC and Directive 92/43/EEC)</p>	Yes	<p>Yes adequately addressed</p> <p>The potential significant effects on Biodiversity are described in Section 6 of the KADP EIAR, Table 6.2 and summarised in Table 6.3b.</p> <p>The consideration of potential significant effects on Biodiversity are described in Section 7 of the KADP EIAR.</p> <p>The KADP-EIAR indicated that Biodiversity may be affected by the following:</p> <ul style="list-style-type: none"> Physical presence: decommissioning operations: Physical presence in field and in transit of supply vessels, barge/ or heavy lift vessels. Physical disturbance: Vessel anchoring. Excavation of jacket piles/leg stump remediation and lift of jacket. Recovery of large items of debris from the seabed. Remedial rock placement. Accidental events: Accidental spills of fuel/lubricants and chemical spills. <p>Further information on the consideration of potential effects is provided in Section 4 and Table 7 of the KADP-EIAR Addendum.</p>	n/a
3.8	<p>Have the direct, primary effects on the hydrology and water quality of water features been described and, where appropriate, quantified?</p>	Yes	<p>Yes adequately addressed.</p> <p>The potential significant effects on Hydrology and Water Quality are described under the environmental factor Water in Section 6 of the KADP EIAR, Table 6.2 and summarised in Table 6.3b.</p> <p>The consideration of potential significant effects on Water are described in Section 7 of the KADP EIAR.</p> <p>The KADP-EIAR indicated Water may be affected by the following:</p> <ul style="list-style-type: none"> Physical disturbance: Drill rig/ vessel positioning and anchoring. Removal of subsea structure (including mattress removal). Discharges to sea: 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Cementing and other chemicals associated.</p> <p>Hydraulic fluid release.</p> <ul style="list-style-type: none"> Accidental events: <ul style="list-style-type: none"> Dropped objects. Accidental spills of fuel/ lubricants. <p>Further information on the consideration of potential effects is provided in Section 4 and Table 7 of the KADP-EIAR Addendum.</p>	
3.9	Have the direct, primary effects on uses of the water environment been described and, where appropriate, quantified? (if relevant, are references made for River Basin Management Plans/Programmes of Measures under the WFD (2000/60/EC))	Yes	<p>Yes adequately addressed</p> <p>See response to review question 3.8</p>	n/a
3.10	Have the direct, primary effects on air quality been described and, where appropriate, quantified? (if relevant, are references made to Air Quality Plans under Directives 2008/50/EC and 2004/107/EC))	Yes	<p>Yes adequately addressed.</p> <p>The potential significant effects on Air Quality are described under the environmental factors Air and Climate in Section 6 of the KADP EIAR, Table 6.2 and summarised in Table 6.3b.</p> <p>The consideration of potential significant effects on Air and Climate are described in Section 7 of the KADP EIAR.</p> <p>The KADP-EIAR indicated that Air and Climate may be affected by the following:</p> <ul style="list-style-type: none"> Atmospheric Emissions: <ul style="list-style-type: none"> Emissions associated with power generation, fugitive emissions from fuel and chemical storage, and venting. Power/ fuel usage associated with Material recycling Accidental events: <ul style="list-style-type: none"> Accidental releases to atmosphere including gas Emissions from accidental spills of fuel/ lubricants and chemical spills. <p>Further information on the consideration of potential effects is provided in Section 4 and Table 7 of the KADP-EIAR Addendum.</p>	n/a
3.11	Have the direct, primary effects on climate change been described and, where appropriate, quantified?	Yes	<p>Yes adequately addressed.</p> <p>See response to review question 3.10</p>	n/a
3.12	Have the direct, primary effects on the acoustic environment (noise or vibration) been described and, where appropriate,	Yes	<p>Yes adequately addressed.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	<p>quantified? (if relevant, are references made to Action Plans/Programme under the Environmental Noise Directive (2002/49/EU))</p>		<p>The potential significant effects on the Acoustic Environment are described under Underwater Noise in Section 6 of the KADP EIAR, Table 6.2 and summarised in Table 6.3b. And in the EIAR Addendum, Section 4.3.</p> <p>The description of potential effects of underwater noise is provided in Section 7.5.1 of the KADP-EIAR which indicated that following aspects of the KADP represented the major sources of underwater noise emissions:</p> <ul style="list-style-type: none"> • vessels movements, engine noise (including dynamic positioning) • cutting operations including high pressure water jet and other cutting tools • removal of casings • survey equipment <p>The following sections of the KADP-EIAR adequately described and assessed the potential interaction between noise emissions and environmental receptors relevant to the KADP:</p> <p style="padding-left: 40px;">Section 7.5.2.1 Marine mammals</p> <p style="padding-left: 40px;">Section 7.5.2.2 Marine reptiles</p> <p style="padding-left: 40px;">Section 7.5.2.3 Birds</p> <p style="padding-left: 40px;">Section 7.5.2.4 Fish</p>	
3.13	<p>Have the direct, primary effects on heat, light or electromagnetic radiation been described and, where appropriate, quantified?</p>	<p>Yes</p>	<p>Yes adequately addressed.</p> <p>Potential environmental effects of light associated with the Project are described and assessed in Appendix D to the KADP-EIAR. The potential effects from rig surface noise and light are assessed in Table D.2 and the impacts are adjudged to likely negligible and significant effects from rig and vessel lights are considered to be unlikely.</p>	<p>n/a</p>
3.14	<p>Have the direct, primary effects on material assets and depletion of natural resources (e.g. fossil fuels, minerals) been described?</p>	<p>Yes</p>	<p>Yes adequately addressed.</p> <p>The potential significant effects on Material Assets are identified in Section 6 of the KADP EIAR, Table 6.2 and summarised in Table 6.3b</p> <p>The consideration of potential significant effects on Population & Human Health and Material Assets are described in Section 7 of the KADP EIAR.</p> <p>The KADP-EIAR indicated that Material Assets may be affected by the following:</p> <ul style="list-style-type: none"> • Physical presence: Decommissioning operations: <ul style="list-style-type: none"> Physical presence of vessels. • Physical disturbance: 	<p>n/a</p>

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Excavation of jacket piles/leg stump remediation, vessel anchoring.</p> <ul style="list-style-type: none"> • Waste: Materials recycling, reuse and disposal: Materials recycling, onshore waste treatment, landfill of residual waste/materials. • Energy use and atmospheric emissions: Materials recycling. • Accidental events: Dropped objects, vessel collision, accidental spills of fuel/lubricants. <p>The water and fuel resources required by the project and the environmental implications of these resources are adequately addressed in the following documents:</p> <ul style="list-style-type: none"> • KADP-EIAR Section 7.6 Discharges to Sea Section 7.8 Energy Use and Atmospheric Emissions Section 7.10 Accidental Events • KADP-EIAR Addendum Appendix D Draft Environmental Management Plan <p>Further information on the consideration of potential effects is provided in Section 4 and Table 7 of the KADP-EIAR Addendum.</p>	
3.15	Have the direct, primary effects on locations or features of cultural importance been described?	Yes	<p>Yes adequately addressed</p> <p>The potential significant effects on Cultural Heritage are identified of Section 6 of the KADP EIAR Table 6.2 and summarised in Table 6.3b</p> <p>The consideration of potential significant effects on Cultural Heritage are described in Section 7 of the KADP EIAR.</p> <p>The KADP-EIAR indicated that Cultural Heritage may be affected by the following:</p> <ul style="list-style-type: none"> • Physical presence: Decommissioning operations: Physical presence in field and in transit of supply vessels, barge/or heavy lift vessels. • Physical disturbance: Excavation of jacket piles/leg stump remediation, vessel anchoring. 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<ul style="list-style-type: none"> Waste: Materials recycling, reuse and disposal: Materials recycling, onshore waste treatment, landfill of residual waste/materials. Energy use and atmospheric emissions: Materials recycling. Accidental events: Dropped objects, vessel collision, accidental spills of fuel/lubricants. <p>Further Information on underwater archaeology of the area is provide in the KADP-EIAR Addendum Appendix C Cultural Heritage.</p>	
3.16	Have the direct, primary effects on the quality of the landscape and on views and viewpoints been described and, where appropriate, illustrated?	Yes	<p>Yes adequately addressed</p> <p>The potential significant effects on the Landscape are identified of Section 6 of the KADP EIAR Table 6.2 and summarised in Table 6.3b</p> <p>The consideration of potential significant effects on the Landscape are described in Section 7 of the KADP EIAR.</p> <p>The KADP-EIAR indicated that Landscape may be affected by the following:</p> <ul style="list-style-type: none"> Physical presence: Decommissioning operations: Physical presence in field and in transit of supply vessels, barge/or heavy lift vessels. Physical disturbance: Excavation of jacket piles/leg stump remediation, vessel anchoring. Waste: Materials recycling, reuse and disposal: Materials recycling, onshore waste treatment, landfill of residual waste/materials. Energy use and atmospheric emissions: Materials recycling. Accidental events: Dropped objects, vessel collision, accidental spills of fuel/lubricants. 	n/a
3.17	Have the direct, primary effects on environmentally relevant demography, social, and socio-economic condition in the area been described and, where appropriate, quantified?	Yes	<p>Yes adequately addressed.</p> <p>The socio-economic effects are in the KADP EIAR Section 6.2.1 Table 6.2 and Section 7. The principal socio-economic effects relate to the loss of ca. 60 permanent jobs (on- and offshore) and related contributions to local</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			economy. Adverse effects on population and human health not considered likely.	
3.18	Have the secondary effects on any of the environment's aspects, above, caused by primary effects on other aspects been described and, where appropriate, quantified? (e.g. effects on biodiversity, including species and habitats protected under Directives 92/43/EEC and 2009/147/EC caused by soil, air or water pollution or noise; effects on uses of water caused by changes in hydrology or water quality; effects on archaeological remains caused by desiccation of soils)	Yes	Yes adequately addressed. Environmental management, mitigation and residual effects are assessed for each potential effect in Section 7 of the EIAR.	n/a
3.19	Have the temporary, short term effects caused only during construction or during time limited phases of Project operation or decommissioning been described? (e.g. emissions produced during the construction)	Yes	Yes adequately addressed. The temporary, short term effects caused during the decommissioning works are identified in the KADP Section 6.2.1 Table 6.2.	n/a
3.20	Have the permanent effects on the environment caused by construction, operation or decommissioning of the Project been described?	Yes	Yes adequately addressed.	n/a
3.21	Have the long-term effects on the environment, caused over the lifetime of Project operations or caused by build-up of pollutants, in the environment been described?	Yes	Yes adequately addressed. The potential pollutant build up in the seabed sediments is described in KADP-EIAR Section 4.1.	n/a
3.22	Have the effects that could result from accidents, abnormal events or exposure of the Project to natural or man-made disasters been described and, where appropriate, quantified?	Yes	Yes adequately addressed. Accidental events during the decommissioning works are identified in the KADP Section 6.2.1 Table 6.2 and how these events may affect environmental receptors including Biodiversity, Air and Climate, Land and Soils and Material Assets. Accidental events are also discussed the KADP EIAR Addendum Section 5 <i>Management of Residual Impacts and Conclusions</i>	n/a
3.23	Have the effects on the environment, caused by activities ancillary to the main Project, been described? (ancillary activities are part of the Project but usually take place at a distance from the main Project location e.g. construction of access routes and	Yes	Yes adequately addressed The effects on the environment, caused by activities ancillary to the main project, such as the use of water and fuel resources required by the project are adequately addressed in the following documents: <ul style="list-style-type: none"> • KADP-EIAR NTS 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	<p>infrastructure, traffic movements, sourcing of aggregates or other raw materials, generation and supply of power, disposal of effluents or wastes). For further guidance and explanation concerning ancillary works assessment see http://ec.europa.eu/environment/eia/pdf/Note%20-%20Interpretation%20of%20Directive%2085-337-EEC.pdf</p>		<p>Section 7.6 Discharges to Sea Section 7.8 Energy Use and Atmospheric Emissions Section 7.10 Accidental Events</p> <ul style="list-style-type: none"> • KADP-EIAR <p>Section 7.6 Discharges to Sea Section 7.8 Energy Use and Atmospheric Emissions Section 7.10 Accidental Events</p> <p>The use of raw materials and waste generated by the project have been described in the following documents:</p> <ul style="list-style-type: none"> • KADP-EIAR Addendum <p>Appendix D Environmental Management Plan Appendix E Draft Resource and Waste Management Plan</p> <p>In addition, it is noted that that the contractors will be required to develop the following plans:</p> <ul style="list-style-type: none"> • Marine Archaeology Management Plan; • Noise and Vibration Management Plan; • Water Quality Management Plan; • Site Waste Management Plan; • Traffic Management Plan (onshore only); • Dust Minimisation Plan (onshore only); • Emergency Incident Response Plan. 	
3.24	<p>Have the indirect effects on the environment caused by consequential development been described? (consequential development is other Projects, not part of the main Project, stimulated to take place by implementation of the Project e.g. to provide new goods or services needed for the Project, to house new populations or businesses stimulated by the Project)</p>	<p>Yes</p>	<p>Yes adequately addressed.</p> <p>The consideration of potential re-uses is outlined in KADP-EIAR Section 3.3. The potential re-uses have been assessed at a high level. If future re-uses are proposed, they will be subject to environmental assessment including a cumulative assessment of the decommissioning of the Kinsale Area facilities and statutory consents approvals.</p>	<p>n/a</p>
3.25	<p>Have the cumulative effects on the environment of the Project, together with other existing or planned developments in the locality, been described? (different future</p>	<p>Yes</p>	<p>Yes adequately addressed</p>	<p>n/a</p>

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	scenarios including a worst-case scenario should be described, as well as the effects on both climate change and biodiversity). For further guidance on the assessment of cumulative impacts see http://europa.eu/environment/eia/eia-support http://ec.europa.eu/environment/archives/eia/eia-studies-and-reports/pdf/guidel.pdf).		Intra-project and Inter-project cumulative impacts are assessed in KADP-EIAR Section 7.11.	
3.26	Have the transboundary effects on the environment of the Project, either during construction or operation, been described?	Yes	Yes adequately addressed Transboundary effects are assessed in the KADP EIAR Section 7.12 and in the KADP EIAR Addendum Section 7.12. Additional information including in relation to underwater noise effects, in combination effects with other plans and programmes, and transboundary effects which were not found to be a source of likely significant effect.	n/a
3.27	Have the geographic extent, duration, frequency, reversibility, and probability of occurrence of each effect been identified as being appropriate?	Yes	Yes adequately addressed Consideration of the effect likelihood, scale, duration and frequency are assessed in the KADP Section 6 Table 6.2 and forms the basis for those topics described and assessed in Section 7. Where effects are identified which are considered to be minor and negligible, these are considered further in Appendix D.	n/a

Prediction of Effects on Human Health and Sustainable Development Issues

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
3.28	Have the primary and secondary effects on human health and welfare described and, where appropriate, been quantified? (e.g. health effects caused by the release of toxic substances to the environment, health risks arising from major hazards associated with the Project, effects caused by changes in disease vectors caused by the Project, changes in living conditions, effects on vulnerable groups).	Yes	<p>Yes adequately addressed</p> <p>The detail provided in the KADP-EIAR Section 3.8 and 5.10.2 Human Health is sufficient. Adverse effects on human health are not considered likely.</p>	n/a
3.29	Have the impacts on issues such as biodiversity, marine environment, global climate change, use of natural resources and disaster risk been discussed, where appropriate?	Yes	<p>Yes adequately addressed</p> <p>Potential Impacts from the project are addressed in the following ;</p> <ul style="list-style-type: none"> • The Decommissioning Plan – Kinsale Head Petroleum Lease (OPL 1) – Consent Application 2 <ul style="list-style-type: none"> Section 8.2: Environmental Assessment Methodology and Identification of Potentially Significant Effects • KADP-EIAR <ul style="list-style-type: none"> Section 6: Environmental Assessment Methodology and Identification of Potentially Significant Effects Section 7: Consideration of Potential Effects • KADP-EIAR Addendum <ul style="list-style-type: none"> Section 4: Consideration of Potential Effects. 	n/a

Evaluation of the Significance of Effects

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
3.30	Is the significance or importance of each predicted effect clearly explained with reference to legal or policy requirements, other standards, and the number, importance, and sensitivity of people, resources or other receptors affected?	Yes	<p>Yes adequately addressed</p> <p>The significance/importance of each predicted effect is clear in:</p> <ul style="list-style-type: none"> • The Decommissioning Plan – Kinsale Head Petroleum Lease (OPL 1) – Consent Application 2 <p style="margin-left: 40px;">Section 8.2 Environmental Assessment Methodology and Identification of Potentially Significant Effects.</p> • KADP-EIAR <p style="margin-left: 40px;">Section 6: Environmental Assessment Methodology and Identification of Potentially Significant Effects</p> <p style="margin-left: 40px;">Section 7: Consideration of Potential Effects</p> • KADP-EIAR Addendum <p style="margin-left: 40px;">Section 4: Environmental Assessment Methodology and Identification of Potentially Significant Effects</p> 	n/a
3.31	Have the impacts on issues such as biodiversity, marine environment, global climate change, use of natural resources and disaster risk been discussed, where appropriate?	Yes	<p>Yes adequately addressed</p> <p>Potential Impacts from the project are addressed in the following documents:</p> <ul style="list-style-type: none"> • The Decommissioning Plan – Kinsale Head Petroleum Lease (OPL 1) – Consent Application 2 <p style="margin-left: 40px;">Section 8.2 Environmental Assessment Methodology and Identification of Potentially Significant Effects</p> • KADP-EIAR <p style="margin-left: 40px;">Section 6: Environmental Assessment Methodology and Identification of Potentially Significant Effects</p> <p style="margin-left: 40px;">Section 7: Consideration of Potential Effects</p> • KADP-EIAR Addendum 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			Section 4: Environmental Assessment Methodology and Identification of Potentially Significant Effects	
3.32	Have the positive effects on the environment been described, as well as the negative effects?	Yes	Yes adequately addressed. Positive, Minor or Negligible Issues have been assessed in Appendix D of KADP-EIAR.	n/a

Impact Assessment Methods

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
3.33	Have the methods used to predict the effects described, and the reasons for their choice, any difficulties encountered, and uncertainties in the results been discussed?	Yes	Yes adequately addressed The methods used in the prediction of significance/importance of each effect are outlined the following documents: <ul style="list-style-type: none"> The Decommissioning Plan – Kinsale Head Petroleum Lease (OPL 1) – Consent Application 2 Section 8.2 Environmental Assessment Methodology and Identification of Potentially Significant Effects. KADP-EIAR Section 6: Environmental Assessment Methodology and Identification of Potentially Significant Effects Section 7: Consideration of Potential Effects KADP-EIAR Addendum Section 4: Environmental Assessment Methodology and Identification of Potentially Significant Effects 	n/a
3.34	Where there is uncertainty about the precise details of the Project, and its impact on the environment/climate change, have worst-case predictions been described?	Yes	Yes adequately addressed Potential Impacts from the project are addressed in the following documents: <ul style="list-style-type: none"> The Decommissioning Plan – Kinsale Head Petroleum Lease (OPL 1) – Consent Application 2 Section 8.2 Environmental Assessment Methodology and Identification of Potentially Significant Effects KADP-EIAR 	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<p>Section 6: Environmental Assessment Methodology and Identification of Potentially Significant Effects</p> <p>Section 7: Consideration of Potential Effects</p> <ul style="list-style-type: none"> • KADP-EIAR Addendum <p>Section 4: Environmental Assessment Methodology and Identification of Potentially Significant Effects</p>	
3.35	Where there have been difficulties in compiling the data needed to predict or evaluate effects, have these difficulties been acknowledged and their implications for the results been discussed?	Yes	<p>Yes adequately addressed</p> <p>See KADP-EIAR Addendum Section 1.4 Compilation of data or information to support the assessment. There were no major difficulties in compiling the relevant information to inform the assessment presented in the KADP EIAR or in the KADP EIAR Addendum.</p>	
3.36	Has the basis for evaluating the significance or importance of impacts been described clearly?	Yes	<p>Yes adequately addressed</p> <p>Rationales for the assessment of impacts are provided in Section 7 of KADP-EIAR.</p>	n/a
3.37	Have the impacts been described on the basis that all Mitigation Measures proposed have been implemented i.e. have the residual impacts been described?	Yes	<p>Yes adequately addressed</p> <p>Residual Impacts have been incorporated into the KADP-EIAR Addendum, see Section 5 – Environmental Management Commitments and Mitigation Measures.</p>	
3.38	Is the level of treatment of each effect appropriate to its importance for the Development Consent decision? Does the discussion focus on the key issues and avoid irrelevant or unnecessary information?	Yes	<p>Yes adequately addressed</p>	n/a
3.39	Is appropriate emphasis given to the most severe, adverse effects of the Project with lesser emphasis given to less significant effects?	Yes	<p>Yes adequately addressed</p>	n/a

Other Questions relevant to Description of Effects

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
3.40	Have, with a view to avoiding duplication of assessments, the available results of other relevant assessments under Union or national legislation, in preparing the environmental impact assessment report been taken into account? If so, how was this done?	Yes	The KADP AA Screening and Article 12 Assessment Screening Report and AA Screening and Article 12 Assessment Screening Addendum were prepared to inform the AA as required under Article 6(3) of the EU Habitats Directive (92/43/EEC) and Regulation 42 of the European Communities (Birds and Natural Habitats) Regulations 2011 as amended. These reports were also considered in the EIA.	n/a

Section 4: Consideration of Alternatives

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
4.1	Have the different Alternatives suggested during Scoping been considered and assessed, and if not has justification been provided?	Yes	<p>Yes adequately addressed</p> <p>Descriptions of the proposed decommissioning alternatives and other options offered are outlined below:</p> <ul style="list-style-type: none"> • KADP Kinsale Head Decommissioning Plan Section 3.3 Other Uses Considered Section 4 Decommissioning Options Section 6 Decommissioning Activities and Schedule • KADP-EIAR NTS Section 3.2 Approach to Decommissioning • KADP-EIAR Section 3.3 Consideration of Potential Re-Uses Section 3.4 Decommissioning Alternatives Considered Section 3.5 Description of the Proposed Decommissioning Scope of Work • KADP AA Screening Report Section 3.4 Approach to Decommission 	n/a
4.2	Have the Developer and practitioners, who are preparing the EIA Report, identified and assessed additional Alternatives (to the ones suggested during Scoping)?	Yes	<p>A Comparative Assessment was undertaken to assess the feasibility of options for decommissioning the Kinsale Area pipelines, subsea infrastructure, umbilicals and associated protection materials. Criteria categories for evaluating the potential impact of the various options include safety, environment, technical feasibility, society and costs.</p> <p>Details of the Comparative Assessment process is presented in the following:</p> <ul style="list-style-type: none"> • KADP-EIAR Appendix E Comparative Assessment Report 	n/a
4.3	Have the process by which the Project was developed been described and are the Alternatives to the design of the Project considered during this process been described? (for assistance, see also the guidance on types of Alternatives which may be relevant in the Scoping Guidance Document in this series)	Yes	<p>Yes adequately addressed</p> <p>See response to review question 4.2.</p>	n/a
4.4	Have the Alternatives to the design considered during this process been described? (for assistance, see also the guidance on types of alternatives which may be	Yes	<p>Yes adequately addressed</p> <p>See response to review question 4.2.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	relevant in the Scoping Guidance Document in this series)			
4.5	Have the different Alternatives suggested during Scoping been considered and assessed, and if not has justification been provided?	Yes	Yes adequately addressed See response to review question 4.2.	n/a
4.6	Have the Alternatives to the location considered during this process been described? (for assistance, see also the guidance on types of alternatives which may be relevant in the Scoping Guidance Document in this series)	No	n/a	n/a
4.7	Have the Alternatives to the size considered during this process been described (for assistance, see also the guidance on types of alternatives which may be relevant in the Scoping Guidance Document in this series)	No	n/a	n/a
4.8	Have the Alternatives to the scale considered during this process been described? (for assistance, see also the guidance on types of alternatives which may be relevant in the Scoping Guidance Document in this series)	No	n/a	n/a
4.9	Has the Baseline situation in the 'do-nothing' scenario been described?	No	n/a	n/a
4.10	Are the Alternatives realistic and genuine Alternatives to the Project? (i.e. feasible Project options that meet the objectives)	Yes	Yes adequately addressed See response to review question 4.2.	n/a
4.11	Have the main reasons for choosing the proposed Project been provided, including an indication of the main reasons for selecting the chosen option, including a comparison of the environmental effects?	Yes	Yes adequately addressed See response to review question 4.2.	n/a
4.12	Are the main environmental effects of the Alternatives compared to those of the proposed Project?	Yes	Yes adequately addressed See response to review question 4.2.	n/a
4.13	Are Mitigation Measures considered in the assessment of Alternatives? (more on mitigation in section 5 below)	Yes	Yes adequately addressed Mitigation measures were not considered in the assessment of alternatives.	n/a

Section 5: Description of Mitigation

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
5.1	Where there are significant adverse effects on any aspect of the environment, has the potential for the mitigation of these effects been discussed?	Yes	<p>Yes adequately addressed</p> <p>The KADP-EIAR identifies a variety of effects to environmental receptors associated with decommissioning activities. While in the majority of cases the effects are shown to be limited in extent and duration and therefore considered minor, a number of the potential effects were identified as being of potentially greater concern. These potentially significant effects were assessed in Section 7 of the KADP-EIAR. The assessments presented in Section 7 include descriptions of the environmental protective measures (i.e. management commitments, actions and mitigation measures) required to manage the risks of effects.</p> <p>Table 8.1 summarises environmental commitments and actions according to the following broad areas:</p> <ul style="list-style-type: none"> • Compliance assurance • Activity planning • Interaction with other users • Discharges to Sea • Waste production • Atmospheric Emissions • Accidental events: dropped objects • Accidental events loss of diesel inventories <p>Mitigation measures and residual effects are categorised in Table 8.2 as follows:</p> <ul style="list-style-type: none"> • Interaction with other users • legacy materials left in situ • Physical disturbance <p>In general the environmental protective measures proposed to manage effects have been clearly described and the significance of residual impacts explained. The parties responsible for implementing protective are indicated.</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			<ul style="list-style-type: none"> • KADP-EIAR Addendum <p>Appendix D Environmental Management Plan</p> <p>Appendix E Draft Resource and Waste Management Plan</p>	
5.2	Have the measures that the Developer has proposed to implement, in order to mitigate effects, been clearly described and is their effect on the magnitude and significance of impacts clearly explained?	Yes	<p>Yes adequately addressed</p> <p>Environmental management, mitigation and residual effects are discussed in Section 7.2.4 of the KADP-EIAR and relate to the following aspects:</p> <ul style="list-style-type: none"> • Physical Presence: Decommissioning Activities • Physical Presence: Legacy of Materials Left In Situ • Physical Disturbance • Underwater Noise • Discharges to Sea • Waste: Materials Recycling, Reuse and Disposal • Energy Use and Atmospheric Emissions • Conservation Sites and Species • Accidental Events <p>These have been discussed in the KADP-EIAR, see Section 5.</p> <ul style="list-style-type: none"> • KADP-EIAR Addendum <p>Appendix D Environmental Management Plan</p> <p>Appendix E Draft Resource and Waste Management Plan</p> <p>The KADP draft Environmental Management Plan outlines the programme for environmental management during the project. It outlines the implementation of proposed monitoring and mitigation measures as outlined in the KADP-EIAR and KADP-EIAR Addendum and the activities to be completed by the contractor. Roles and Responsibilities are defined to ensure adequate development, implementation, maintenance and monitoring of environmental management. The procedures for communicating and reporting on environmental aspects of the proposed development throughout the decommissioning works, are also outlined.</p> <p>The draft Resource and Waste Management Plan outlines the management or removal of any structures or any wastes produced as part of the decommissioning stages of the Project.</p>	n/a
5.3	Have any proposed mitigation strategy's negative effects been described?	Yes	<p>Yes adequately addressed</p>	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

			See response to review question 4.2.	
5.4	If the effect of Mitigation Measures on the magnitude and significance of impacts is uncertain, has this been explained?	Yes	Yes adequately addressed See KADP-EIAR Addendum Section 5 and KADP EIAR Addendum Appendix D – Environmental Management Plan	n/a
5.5	Is it clear if the Developer has made a binding commitment to implement the mitigation proposed or acknowledged that the Mitigation Measures are just suggestions or recommendations?	Yes	Yes adequately addressed See KADP-EIAR Addendum Appendix D – Environmental Management Plan, Section 1.2.	n/a
5.6	Do the Mitigation Measures cover both the construction and operational phases of the Project?	Yes	Yes adequately addressed See response to review question 5.4.	n/a
5.7	Have the Developer's reasons for choosing the proposed mitigation been explained?	Yes	Yes Adequately addressed See response to review question 5.4.	n/a
5.8	Have the responsibilities for the implementation of mitigation including roles, responsibilities, and resources been clearly defined?	Yes	Yes adequately addressed See KADP-EIAR Addendum Appendix D – Environmental Management Plan, B1 Draft Monitoring Programme.	n/a
5.9	Where the mitigation of significant adverse effects is not practicable, or where the Developer has chosen not to propose any mitigation, have the reasons for this been clearly explained?	Yes	Yes adequately addressed See response to review question 5.4.	n/a
5.10	Is it evident that the practitioners developing the EIA Report and the Developer have considered the full range of possible approaches to mitigation, including measures to avoid, prevent or reduce and, where possible, offset impacts by alternative strategies or locations, changes to the Project design and layout, changes to methods and processes, 'end of pipe' treatment, changes to implementation plans and management practices, measures to repair or remedy impacts and measures to compensate impacts?	Yes	Yes adequately addressed Section 7 and Section 8 of the KADP-EIAR and the Comparative Assessment (see Appendix E) demonstrates that, with the exception of waste and construction management, the planning and design of the KADP adequately considered the wide range of environmental issues associated with the decommissioning activities. See the KADP-EIAR Addendum Appendix Section 5.2.	n/a

Section 6: Description of Monitoring Measures

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
6.1	Where adverse effects on any aspect of the environment are expected, has the potential for the monitoring of these effects been discussed?	Yes	Yes adequately addressed. Monitoring effects were not previously discussed in the documentation. A Draft Monitoring Programme has been provided as part of the EIAR Addendum. See KADP-EIAR Addendum Appendix B of Appendix D. This Draft Monitoring Programme details the monitoring measures to be undertaken and by whom. See response to review question 1.9.	n/a
6.2	Are the measures, which the Developer proposes implementing to monitor effects, clearly described and has their objective been clearly explained?	Yes	Yes adequately addressed See response to review question 6.1.	n/a
6.3	Is it clear whether the Developer has made a binding commitment to implement the proposed monitoring programme or that the Monitoring Measures are just suggestions or recommendations?	Yes	Yes adequately addressed It has been made clear per the Draft Monitoring programme that the developer will be implementing the monitoring programme mentioned.	n/a
6.4	Have the Developer's reasons for choosing the monitoring programme proposed been explained?	Yes	Yes adequately addressed Reasons for including monitoring measures per the Draft Monitoring Programme are explained.	n/a
6.5	Have the responsibilities for the implementation of monitoring, including roles, responsibilities, and resources been clearly defined?	Yes	Yes adequately addressed Responsibilities detailed in Draft Monitoring Programme.	n/a
6.6	Where monitoring of adverse effects is not practicable, or the Developer has chosen not to propose any Monitoring Measures, have the reasons for this been clearly explained?	Yes	Yes adequately addressed Monitoring Measures proposed for all relevant aspects. See Appendix B of Appendix D of the KADP-EIAR Addendum and KADP Kinsale Head Decommissioning Plan.	n/a
6.7	Is it evident that the practitioners developing the EIA Report and the Developer have considered the full range of possible	Yes	Yes adequately addressed Full range considered see Draft Monitoring Programme.	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	<p>approaches to monitoring, including Monitoring Measures covering all existing environmental legal requirements, Monitoring Measures stemming from other legislation to avoid duplication, monitoring of Mitigation Measures (ensuring expected significant effects are mitigated as planned), Monitoring Measures capable of identifying important unforeseen effects?</p>			
<p>6.8</p>	<p>Have arrangements been proposed to monitor and manage residual impacts?</p>	<p>Yes</p>	<p>Yes adequately addressed See Draft Monitoring Programme.</p>	<p>n/a</p>

Section 7: Quality

Quality of Preparation

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
7.1	Is the EIA Report available in one or more clearly defined documents?	Yes	<p>Yes adequately addressed</p> <p>The KADP-EIAR is presented as a single report that is comprised of a series of separate files:</p> <ul style="list-style-type: none"> • Volume 1: KADP-EIAR NTS • Volume 2: KADP-EIAR Main Text Part 1 of 3 • Volume 2: Part 2 KADP-EIAR Main Text Part 2 of 3 • Volume 2: Part 3 KADP-EIAR Main Text Part 3 of 3 • Volume 3: Appendices Part 1 of 2 • Volume 3: Appendices Part 2 of 2 • KADP-EIAR Addendum. 	n/a
7.2	Is the document(s) logically organised and clearly structured, so that the reader can locate information easily?	Yes	Yes adequately addressed	n/a
7.3	Is there a table of contents at the beginning of the document(s)?	Yes	Yes adequately addressed	n/a
7.4	Is there a clear description of the process that has been followed?	Yes	Yes adequately addressed	n/a
7.5	Is the presentation comprehensive but concise, avoiding irrelevant data and information?	Yes	Yes adequately addressed	n/a
7.6	Does the presentation make effective use of tables, figures, maps, photographs, and other graphics?	Yes	Yes adequately addressed	n/a
7.7	Does the presentation make effective use of annexes or appendices to present detailed	Yes	Yes adequately addressed	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

	data that is not essential to understanding the main text?			
7.8	Are all analyses and conclusions adequately supported with data and evidence?	Yes	Yes adequately addressed	n/a
7.9	Have all sources of data been properly referenced?	Yes	Yes adequately addressed	n/a
7.10	Has terminology been used consistently throughout the document(s)?	Yes	Yes adequately addressed	n/a
7.11	Does it read as a single document, with cross referencing between sections used to help the reader navigate through the document(s)?	Yes	Yes adequately addressed	n/a
7.12	Is the presentation demonstrably fair and, as far as possible, impartial and objective?	Yes	Yes adequately addressed	n/a

Non-Technical Summary

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
7.13	Does the EIA Report include a Non-Technical Summary?	Yes	Yes adequately addressed	n/a
7.14	Does the Summary provide a concise but comprehensive description of the Project, its environment, the effects of the Project on the environment, the proposed Mitigation Measures, and proposed monitoring arrangements?	Yes	Yes adequately addressed	n/a
7.15	Does the Summary highlight any significant uncertainties about the Project and its environmental effects?	Yes	Yes adequately addressed	n/a
7.16	Does the Summary explain the Development Consent process for the Project and the EIA's role in this process?	Yes	Yes adequately addressed	n/a

KADP ENVIRONMENTAL IMPACT ASSESSMENT REPORT TECHNICAL REVIEW

7.17	Does the Summary provide an overview of the approach to the assessment?	Yes	Yes adequately addressed	n/a
7.18	Has the Summary been written in non-technical language, avoiding technical terms, detailed data, and scientific discussion?	Yes	Yes adequately addressed	n/a
7.19	Would it be comprehensible to a lay-member of the public?	Yes	Yes adequately addressed	n/a

Expertise

No.	Review Question	Relevant?	Adequately Addressed? (Yes, No, Partially, n/a)	Further information needed?
7.20	Is the competency of experts, who are responsible for the preparation of the EIA Report, indicated or otherwise explained in the EIA Report?	Yes	Yes adequately addressed A list of contributors is included in Section 1.9 of the <i>KADP-EIAR</i> .	n/a
7.21	Has the Developer complied with national or local legal requirements and practices for the selection of experts responsible for the preparation of the EIA Report?	Yes	Yes adequately addressed	n/a

Appendix B

Consultation Submissions

Summary of Public Consultation Submissions

Decommissioning Project - Record of Public Consultation Submissions Received				Issues assessed in RPS technical review of KADP-EIAR and AA Screening Report
Consultation Response	Date Received	Prescribed Body/ Public Sub.	Key Details of Submission	Comment
KADP001	11 September 2019	Commission for Regulation of Utilities (CRU)	<p>The CRU state:</p> <p>“It should be noted that the activities covered in the application to [DCCAE], i.e. removal of the platform jackets, will not be subject to regulation by the CRU.”</p> <p>“In summary, the activities covered by the application to [DCCAE] are out with the statutory remit of CRU.”</p>	n/a
KADP002	13 September 2019	Department of Culture, Heritage and the Gaeltacht	<p>The DCHG’s submission made reference to two specific areas of the application for consent no.2, namely:</p> <ul style="list-style-type: none"> • Nature Conservation; and • Archaeology <p>The following are the main points from their submission.</p> <p>Nature Conservation</p> <p>“It is noted that both addendum documents (AA Screening Report addendum and EIAR Addendum) for the decommissioning of the Kinsale Alpha and Kinsale Bravo platform sub-structures and all associated works have been reviewed. The NPWS are satisfied that the Kinsale Area Decommissioning Project (KADP) is unlikely to introduce or incur a significant negative impact on Natura 2000 site designated for Annex II marine mammal species, Roaringwater Bay and Islands SAC (>70km distant). It is also their view that the likelihood of a significant effect on populations of Annex IV cetacean species, arising from the proposed works and activities as documented, can be reasonably discounted. Attention to be drawn to this Department’s published “Guidance to Manage the Risk to Marine Mammals from Man-Made Sound Sources in Irish Waters” (2014) which may be of relevance to noise producing activities.”</p> <p>Archaeology</p> <p>“Taking into account the Cultural Heritage findings, there are no objections to the decommissioning works proceeding once the following are included as conditions in any Permit granted.</p>	<p>The conditions stated in the letter from DCHG relating to the Inch terminal and the foreshore are not deemed relevant to the decommissioning activities associated with the platform jackets.</p> <p>If the Minister grants consent for Consent Application No.2, it is recommended that the proposed conditions that relate to the decommissioning activities for the platform jackets as set out in the submission by the DCHG be attached to any such consent.</p>

- The services of a suitably qualified and suitably experienced maritime archaeologist is engaged to undertake agreed monitoring of the decommissioning works on the foreshore or at sea for works that are less than 300m from known wreck sites.
- Ground disturbance in greenfield sites for the Inch decommissioning works, including for landfill purposes, shall be subject to agreed archaeological monitoring.
- The applicant shall engage with the archaeologist by providing specifications in advance of the proposed decommissioning works, to allow the archaeologist to determine any mitigation strategies that may need to be put in place to protect identified shipwreck remains. In particular, and if relevant, the wrecks, including the *UC-42*, that are in closest proximity to the decommissioning works (including any impacts from plant and machinery), shall have an exclusion zone imposed to ensure there is no impacts on the known location of the wreck. The applicant shall be prepared to be advised by the consultant archaeologist in this regard.
- Provision shall be made to accommodate the monitoring archaeologist on board the decommissioning vessels to enable them to successfully carry out their work.
- The monitoring archaeologist shall have the power to have works suspended in a particular location or for a particular element of the decommissioning programme, should known or previously unknown cultural heritage, including underwater cultural heritage, be identified or impacted. The Underwater Archaeology Unit shall be contacted immediately in this event.
- The archaeological monitoring shall be licensed by the Department of Culture, Heritage and the Gaeltacht and a detailed method statement containing the monitoring strategy shall accompany the licence application.
- As with previous requirements, the nature and extent of the foreshore decommissioning works are not clear. If there is to be impact along the nearshore and foreshore, then this should be subject to archaeological monitoring, and the methodology shall include details of this. The level and scale of archaeological monitoring for all elements of works can be determined once the scope of the works is clarified in the submitted methodology. The consultant archaeologist can address this in their method statement.
- Upon completion of the archaeological monitoring, a detailed monitoring report shall be forwarded to the National Monuments Services' Underwater Archaeology Unit.