

Exxon Site Development Project

Full Business Case

June 2023



Glasgow City Region City Deal
Project Submission from West Dunbartonshire Council

Contents

- Business Case Approval Criteria..... 5**
- 1 Introduction and Executive Summary..... 15**
 - 1.1 West Dunbartonshire City Deal Project..... 15
 - 1.2 Business Case..... 16
 - 1.3 Project Contribution to City Deal Economic Case..... 17
 - 1.4 Strategic Need for the Project 17
 - 1.5 Current Position..... 18
 - 1.6 Options 18
 - 1.7 Project Scope 18
 - 1.8 Forecast Cost 19
 - 1.9 Proposed Team and Project Management Arrangements..... 19
- 2 Strategic Case 20**
 - 2.1 Introduction 20
 - 2.2 Strategic Need..... 20
 - 2.3 Existing Arrangements 28
 - 2.4 Strategic and Policy Context for the Project..... 31
 - 2.5 Project Objectives..... 44
 - 2.6 Project Summary 47
 - 2.7 Dependencies and Constraints 55
 - 2.8 Stakeholders..... 57
 - 2.9 Risk..... 63
 - 2.10 Risk Allocation and Transfer 64
- 3 Economic Case - Options Appraisal 67**
 - 3.1 Introduction..... 67
 - 3.2 Summary Outcomes for the Location of a Sizeable Economic Investment Site 67
 - 3.3 Summary Outcomes for the Sectors of Opportunity 68
 - 3.4 Summary Outcomes for Site Access..... 68
 - 3.5 Long List – Scope, Solution, Delivery & Funding 68
 - 3.6 Site Development Options - Long List..... 68
 - 3.7 Long-list Appraisal..... 69
 - 3.8 Resulting Short List 70
 - 3.9 Benefits..... 70
- 4 Economic Case – Short List Analysis..... 73**
 - 4.1 Introduction..... 73
 - 4.2 Cost Benefit Analysis 80
 - 4.3 Confirmation of the Results 83
 - 4.4 Value for Money – Wider Impacts 84
- 5 Commercial Case 88**
 - 5.1 Introduction..... 88
 - 5.2 Delivery Specification 88

5.3	Funding Options and Payment Arrangements	89
5.4	Procurement and Community Benefits Strategy	90
5.5	Commercial Risks.....	91
6	Financial Case	92
6.1	Overall Project Approval.....	92
6.2	Project Funding	92
6.3	Summary of Project Costs.....	92
6.4	Expenditure on Assets Not Council Owned	95
6.5	Ongoing Revenue Implications	95
6.6	Main Financial Dependencies	96
6.7	Financial Risks	96
7	Management and Sustainability Case.....	97
7.1	Project Roles	97
7.2	Project Governance Structure	98
7.3	Risk Management.....	100
7.4	Resilience	102
7.5	Greener Placemaking.....	102
7.6	Active and Lower Carbon Travel.....	102
7.7	Other Matters for Consideration	102
7.8	Project Schedule	104
7.9	Project Monitoring and Evaluation.....	104
7.10	Use of Specialist Advisors.....	108

Figures

Figure 1-1	Exxon Site Aerial View.....	15
Figure 2-1	Real GDP, Jan 2020 = 100.....	25
Figure 2-2	Employment Rate	25
Figure 2-3	Vacancy Rate vs. Employment Rate in West Dunbartonshire	27
Figure 2-4	Site Location in Context.....	28
Figure 2-5	Forecast Change in Population of Working Age.....	29
Figure 2-6	Forecast Change in GVA	30
Figure 2-7	Forecast Change in Chained Volume Measure (CVM) in West Dunbartonshire	30
Figure 2-8	Average Annual Growth Rate of Sectoral Productivity 2015 - 2035.....	31
Table 2-2	Project fit with National Policies and Strategies.....	34
Figure 2-9	Extract from Proposed LDP Showing Development Proposals	39
Figure 2-10	Site Boundary.....	48
Figure 2-11	Approved Masterplan.....	50
Figure 2-12	Relationship between Project's direct Deliverables and Strategic Need	54
Figure 7-1	Council Governance Structure.....	99

Tables

Table 2-1	SWOT Analysis of West Dunbartonshire Economy.....	21
Table 2-3	Project fit with Regional Policies and Strategies.....	38
Table 2-4	Project fit with Local Policies and Strategies	41
Table 2-5	City Region Deal Objectives and Exxon Site Contribution	43
Table 2-6	Specific, Measurable, Attainable, Relevant and Time-bound (SMART) Objectives	46
Table 2-7	Dependencies and Constraints.....	56
Table 2-8	Stakeholder Engagement Summary	59

Table 2-9 Risk Transfer	65
Table 3-1 Option scoring against Project Objectives	69
Table 3-2 Option Scoring against Critical Success Factors	70
Table 3-3 Qualitative Disbenefits Profile	71
Table 4-1 Public Capital Costs Inc OB (£m, 2023 prices).....	73
Table 4-2 Turnover Per Construction Employee (2022)	74
Table 4-3 Additionality Assumptions (Construction)	75
Table 4-4 Gross Infrastructure Construction Jobs	75
Table 4-5 Net Direct Infrastructure Construction Jobs	75
Table 4-6 GVA per Infrastructure Construction Employee (2022)	76
Table 4-7 Gross Direct Infrastructure Construction Nominal GVA (£m)	76
Table 4-8 Net Direct Infrastructure Construction Discounted GVA (£m)	76
Table 4-9 Development Plots (GEA m ²).....	77
Table 4-10 Total Private Sector Investment (£m).....	77
Table 4-11 Gross Development Construction Jobs	77
Table 4-12 Net Direct Construction Jobs	78
Table 4-13 Gross Development Construction GVA (£m).....	78
Table 4-14 Net Direct Development Construction GVA (£m).....	78
Table 4-15 Development Plots (areas used for employment calculation).....	79
Table 4-16 Gross Operational Jobs	79
Table 4-17 Net Direct Operational Jobs	79
Table 4-18 Gross Direct Operational Nominal GVA (£m)	79
Table 4-19 Discounted Net Direct Operational GVA (£m)	80
Table 4-20 Total Gross Direct GVA (£m).....	80
Table 4-21 Total Net Direct Discounted GVA (£m).....	80
Table 4-22 Additional NPV GVA (£m)	80
Table 4-23 Cost Per Job (City Region)	80
Table 4-24 Value for Money	81
Table 4-25 Switching Value Analysis	82
Table 4-26 Sensitivity Testing	82
Table 4-27 Confirmation of the Preferred Option	83
Table 4-28 Qualitative Benefits	84
Table 4-29 Qualitative Benefits	87
Table 5-1 Procurement Milestones	91
Table 6-1 Project Capital Costs (Option 5) – June 2023.....	93
Table 6-2 Project Finance Overview	93
Table 7-1 Council Project Board	100
Table 7-2 Anticipated Minimum Community Benefits	108

Appendices

Appendix A	Socio-Economic Baseline
Appendix B	Previous Council Project Experience
Appendix C	Environmental Impact Assessment
Appendix D	Risk Register
Appendix E	Benefits Realisation Profile
Appendix F	Additionality
Appendix G	Development Plot & Option Timelines
Appendix H	Equalities Impact Assessment
Appendix I	Project Programme

Business Case Approval Criteria

The City Deal Project Management Office's Business Case Appraisal Criteria states that 'Business Cases will be appraised in relation to the extent to which all requirements have been fully achieved. This Full Business Case has been structured to specifically address the appraisal criteria as set out in the Assurance Framework and the additional programme economic case questions taken from the latest Programme Business Case. The Table below provides paragraph references showing where each of the business case requirements is addressed in this document.

Member Authority: WEST DUNBARTONSHIRE COUNCIL Project Name: EXXON FULL BUSINESS CASE

Business Case Section	Sub-Section	FBC Appraisal Questions	FBC Location
0. Executive Summary		0.0.1 Does the Executive summary provide a summary/description of: Project need; Project scope; Project's costs; the Project's key milestones; anticipated benefits, including economic benefits (BCR, GVA, construction jobs, operational employment, private sector investment, etc. as required by the Programme Business Case); Project management arrangements?	Section 1
		FBC Comment:	
1. Strategic case	1.1 Strategic Need	1.1.3 Has the FBC revisited the case for change for the Project and does it remain valid? Does the Strategic Case contain any specific additional elements that reflect the content of the FBC?	Section 2.2
		FBC Comment:	
		1.1.3 Has the FBC revisited the rationale for the Project set out within the Strategic Case of the Outline Business Case?	Section 2.2
		FBC Comment:	
	1.2 Strategic and Policy Context for The Project and Contribution to the City Deal	1.2.2 Does the recommended intervention still satisfy the strategic objectives of the City Deal Programme?	Section 2.4
		FBC Comment:	
	1.3 Project Objectives	1.3.2 Have the SMART objectives been revisited in relation to the focus of the FBC?	Section 2.6
		FBC Comment:	
	1.4 Existing Arrangements		Section 2.3
	1.5 Project Summary		Section 2.6
1.6 Dependencies and Constraints	1.6.1 Have all relevant Project dependencies included within the OBC been revisited and refreshed? Have any new dependencies been identified since the OBC? How will they be managed?	Section 2.7	
	FBC Comment:		

Business Case Section	Sub-Section	FBC Appraisal Questions	FBC Location
		1.6.2 Have all relevant Project inter-dependencies included within the OBC been revisited and refreshed? Have any new inter-dependencies been identified since the OBC? How will they be managed? FBC Comment:	Section 2.6
		1.6.3 Have all relevant Project constraints included within the OBC been revisited and refreshed? Have any new constraints been identified since the OBC? How will they be managed? FBC Comment:	Section 2.6
	1.7 Stakeholders	1.7.1 Has information regarding the main stakeholder groups and any potential areas of conflict been reviewed and updated? Have any new stakeholders or potential areas of conflict been identified? FBC Comment:	Section 2.8
	1.8 Risk	1.8.2 Have the risk management arrangements and plans been finalised? FBC Comment:	Section 2.9 Appendix D
		1.8.2 Has the Project risk register been reviewed and updated since the OBC? FBC Comment:	Appendix D
		1.8.6 Have environmental and climate risks identified and mitigated within the risk register been refreshed and updated within the FBC? FBC Comment:	Appendix D
2. Economic Case	2.1 List of options	2.1.0 Has the economic case within the OBC been reviewed and does it remain valid? FBC Comment:	Section 3
	2.2 Additionality		Section 4

Business Case Section	Sub-Section	FBC Appraisal Questions	FBC Location	
	2.3 Benefit	2.3.1 Have the benefits of the Preferred Option identified within the OBC changed? If they have these should be clearly detailed. If this is a sub-Project of the OBC, has the FBC detailed the outputs and outcomes that it will deliver? FBC Comment:	Section 4	
		2.3.2 Have the disbenefits of this project/sub-project been listed and clearly described? FBC Comment:	Section 4.4	
		2.3.4 Has the timescale for the realisation of benefits/disbenefits been provided? FBC Comment:	Appendix E	
		2.3.7 Have clear measurement, monitoring and evaluation plans been identified to track the delivery of each stated benefit? Is this taken forward to Section 5.7? FBC Comment:	Section 7.9	
		2.3.8 If this FBC is a sub-project of an OBC, does this provide clarity on the benefits that are generated as a direct result of City Deal project investment, and those that are generated as a direct result of subsequent action by others e.g. follow-on private or public sector investment? FBC Comment:	Section 4	
		2.4 Cost/Benefit Analysis	2.4.1 Have any of the Project costs changed from those within the OBC (for example following the procurement process)? FBC Comment:	Section 4
			2.4.3 Where costs have changed, has this had an impact upon the Value for Money calculation within the OBC? If costs have changed then the VfM calculations (BCR calculation within the OBC) should be reviewed and restated reflecting any changes. FBC Comment:	Section 4
			2.5 Options Appraisal Results	2.5.1 Are the options identified within the OBC still valid? FBC Comment:
	2.5.2 Have the rankings of the options within the OBC been reviewed and are they still valid? FBC Comment:	Section 3		
	2.5.3 Have any of the key assumptions used within the options appraisal at OBC changed? If any of the assumptions have changed then the FBC must demonstrate that the Preferred Option continues to offer better public value.	Section 4		

Business Case Section	Sub-Section	FBC Appraisal Questions	FBC Location	
	2.6 Preferred Way Forward/Preferred Option	FBC Comment:		
		2.6.1 Does the Preferred Option identified within the OBC remain the Preferred Option?	Section 4	
	2.7 Sensitivity and risk profile	FBC Comment:		
		2.7.1 If the Preferred Option identified at OBC has changed, then has appropriate sensitivity analysis been completed?	Section 4	
	3. Commercial Case	3.1 Commercial Aspects	FBC Comment:	
			3.1.1 Does the Preferred Option continue to address the needs of all parties and Project partners – the Member Authority, the City Deal, other direct funders, and wider Project partners (including those that are expected to deliver activity or outcomes as a result of City Deal investment)?	Section 5
FBC Comment:				
3.1.2 Have the funding options for the Preferred Option contained within the OBC changed? If yes, has evidence been provided of the alternative funding sources that have been adopted? Does the FBC set out the contractual arrangements for the negotiated contract?			Section 5	
FBC Comment:				
3.1.3 Are there any changes to the requirements for follow on private/public sector funding as stated in the OBC? If this has changed then this change should be clearly described and quantified.			Section 5	
FBC Comment:				
3.2 Procurement Strategy	3.1.5 Where payments are to be made to external parties, has the circumstances or nature of these process changed from the description provided within the OBC?	FBC Comment:		
		3.2.1 Has the procurement approach that was set out in the OBC been followed? If this has changed, has the reason for the change been clearly articulated and was the strategy still in line with the procurement regulations? Was the procurement process in line with the Glasgow City Region City Deal Procurement Strategy and compliant with City Deal Guidance?	Section 5	
		FBC Comment:		

Business Case Section	Sub-Section	FBC Appraisal Questions	FBC Location
		3.2.3 Does the body (or bodies) identified within the OBC to procure the Project remain unchanged? FBC Comment:	Section 5
		3.2.5 Have the proposed contracting arrangements described within the OBC changed? If they have changed do the new contracting arrangements include appropriate conditions of contract? FBC Comment:	Section 5
		3.2.6 Have the clear contractual milestones and delivery dates for the procurement process identified in the OBC been reviewed and confirmed/ updated as appropriate? FBC Comment:	Section 5
4. Financial Case	4.1 Financial appraisal	4.1.1 Is there a clear description of Project costs (split by individual element) phased over the delivery timescale detailed and quantified within the FBC? Have any changes since the OBC been detailed within the FBC? FBC Comment:	Section 6
		4.1.3 Have appropriate benefit and monitoring evaluation costs been described and quantified, covering the full City Deal period to 2035? FBC Comment:	Section 6.5
		4.1.4 Have funding sources been detailed and quantified within the FBC? Have any changes since the OBC been detailed within the FBC? FBC Comment:	Section 6
		4.1.5 Does this clearly identify the direct City Deal funding (split 86% / 14%)? (n.b. 86/14% split should be clear statement within FBC and reiterated in Executive Summary) Have any changes since the OBC been detailed within the FBC? FBC Comment:	Section 6
		4.1.6 Has the additional follow-on investment required to deliver the Project benefits, as specified in the OBC, been reviewed? Have any changes been described and quantified? FBC Comment:	Section 6.6
		4.1.7 Has evidence been provided demonstrating that full budget funding has been secured and budgeted for by all parties – the Member Authority, other direct Project funders, other follow-on investment? FBC Comment:	Section 6
		4.1.8 Has income from capital receipts related to this project been considered and included? FBC Comment:	Section 6

Business Case Section	Sub-Section	FBC Appraisal Questions	FBC Location
		4.1.9 Have the impacts on Member Authority income/expenditure a/c and on balance sheet been provided if applicable? Does this specifically include ongoing revenue costs to MA or other public sector organisation? Does this include both financing costs and operational running costs? FBC Comment:	Section 6
		4.1.10 Is contingency still contained within the costing, and if so what is the value and %? What is the value and % of contingency, and where applicable Optimism Bias, for the Project? Does the level of contingency provided for seem reasonable? FBC Comment:	Section 6
		4.1.11 How will VAT will be treated? Is there a description in the FBC of applicable VAT risks, and if so are they included in the Risk Register? FBC Comment:	Section 6
		4.1.12 Have any guarantees been provided, or financial agreements made? Does this cover direct Project funding or follow-on investment? Are these guarantees from the Member Authority to third party, or vice-versa? How substantial are these agreements, and to what extent is the Project's success dependent on these guarantees? FBC Comment:	Section 6
		4.1.13 Linked to results at Section 1.8, have all relevant financial risks been identified, managed and allocated in the risk register, and are the key financial risks presented here, with clear mitigating actions? FBC Comment:	Section 6.7
		5.1.1 Have the Project roles and responsibilities for or this FBC been finalised and noted within the document? Have the appropriate skills and experience of the team members been described? FBC Comment:	Section 7
		5.1.2 If the Project involves a grant to a third party, have the measures described within the OBC to ensure that the Project delivers outcomes on time, at scale, to quality etc. been put in place? FBC Comment:	N/A
5. The Management Case	5.2 Project governance Structures	5.2.1 Have approval processes within the Member Authority been stated and followed, including stating the date of the member authority committee approval? Is the committee approval paper consistent with the FBC in terms of scope, finance, timeline, and benefits? FBC Comment:	Section 7.2

Business Case Section	Sub-Section	FBC Appraisal Questions	FBC Location
		5.2.2 Have robust Project management arrangements been clearly stated in relation to the operational delivery and future management of the completed Project within the Member Authority? FBC Comment:	Section 7.1
	5.3 Community Benefits	5.3.1 Are the community benefits secured detailed, following the conclusion of the procurement process? Is this in line with the Glasgow City Region City Deal Community Benefits Strategy and can evidence that what has been secured in contract can be linked back to the City Deal Guidance? FBC Comment:	Section 7.9
	5.4 Legal Matters and Required Approvals	5.4.1 Have the legal risks and issues which might affect the Project identified within the OBC been reviewed and updated? If this FBC is for a sub-Project of the OBC, are there any additional legal matters relating to this sub-Project that require to be considered? FBC Comment:	Section 7.7
		5.4.2 Has external legal advice been taken on those risks/issues where it is appropriate to do so? FBC Comment:	Section 7.7
		5.4.3 Have relevant legal risks been added to the risk register(s)? FBC Comment:	Section 7.7
		5.4.4 Have appropriate mitigation measures and actions been put in place to deal with legal risks and issues which have arisen or which you anticipate may arise? FBC Comment:	Section 7.7 / Appendix D
		5.4.5 Have all required approvals and licences (for example planning approval, marine licence, SEPA licence, TAUS etc.) been secured? Do any conditions apply to the approval granted? FBC Comment:	Section 7.7 / Appendix D
		5.5 Project schedule	5.5.1 Has the Project schedule, including delivery dates and milestones, been reviewed and updated within the FBC? FBC Comment:
	5.6 Sustainability case		Section 7

Business Case Section	Sub-Section	FBC Appraisal Questions	FBC Location
	5.7 Project Monitoring	5.7.1 Have the Project measurement, monitoring and evaluation arrangements to track the delivery of the Project and each stated benefit described within the OBC been updated and finalised?	Section 7.9
		FBC Comment:	
		5.7.2 Is the monitoring and evaluation plan in line with the requirements of the Assurance Framework and Programme Business Case e.g. do the monitoring and evaluation arrangements cover the period until Project completion in 2035?	Section 7.9
		FBC Comment:	
		5.7.3 Has responsibility for Project monitoring and evaluation changed from the information provided within the OBC?	Section 7.9
FBC Comment:			

Business Case Appraisal Criteria Sign-off:

(Signature)

(Date)

(Position) Gail Macfarlane, Chief Officer, West Dunbartonshire Council
 Project Sponsor

Abbreviations and Terms

- AMSC: Application for Matters Specified in Conditions
- CEDA: Core Economic Development Area
- CVM: Chained Volume Measures
- ESR: Enterprise and Skills Review
- FBC: Full Business Case
- GDP: Gross Domestic Product
- GEA: Gross External Area
- GIA: Gross Internal Area
- GNP: Gross National Product
- GVA: Gross Value Added
- HCA: Homes and Communities Agency
- LDP: Local Development Plan
- NIA: Net Internal Area
- NPPG: National Planning Policy Guidelines
- NPV: Net Present Value
- OBC: Outline Business Case
- PMO: Programme Management Office
- PPIP: Planning Permission in Principle
- SBC: Strategic Business Case
- SCDI: Scottish Council for Development and Industry
- SDI: Scottish Development International
- SE: Scottish Enterprise
- SEPA: Scottish Environmental Protection Agency
- SMART: Strategic Measurable Achievable Relevant Timely
- SPA: Special Protection Area
- SPP: Scottish Planning Policies
- SSSI: Site of Special Scientific Interest
- SUDS: Sustainable Urban Drainage System
- TEE: Transport Economic Efficiency
- TS: Transport Scotland

1 Introduction and Executive Summary

1.1 West Dunbartonshire City Deal Project

- 1.1.1 This document sets out the Full Business Case (FBC) for West Dunbartonshire Council's ("the Council") project under the terms of the Glasgow City Region City Deal. The project involves the redevelopment of the former oil terminal at Bowling - the Exxon Site Development Project. In due course, it is the Council's intention to rename the project to better reflect the geographical location and intended future use of the site.
- 1.1.2 The FBC is for £44,324,635 of infrastructure capital funding in 2023/24 to support the development potential of the site at Bowling with £38,119,186 of funding (86%) sought from the City Region Deal Infrastructure Fund and the remaining £6,205,449 (14%) being funded by the Council. Agreement to transfer ownership of the site from Exxon to the Council was reached in October 2020 and will be concluded when Exxon complete the site remediation in Q4 2023.
- 1.1.3 The site is the location of the former Bowling Oil Terminal located between Dumbarton and Clydebank and is shown in the aerial photograph in Figure 1-1 below. It is currently disused having been levelled in 1997.

Figure 1-1 Exxon Site Aerial View



- 1.1.4 There is a clear need to stimulate greater economic activity in West Dunbartonshire as there is a high degree of dependency on the public sector in the local economy and on out-commuting to the wider Glasgow City Region. There is also a shortage of employment in higher value positions in West Dunbartonshire despite the presence of a reasonably well-educated labour market. A lack of job opportunities is a significant barrier to economic growth in the area. Addressing these issues through the creation of additional employment land opportunities will have a significant impact across West Dunbartonshire and the wider City Region area.
- 1.1.5 As existing sites are built out to their capacity, the Exxon site has been identified as crucial to the economic development needs of West Dunbartonshire in the medium to longer term as a requirement for additional strategic development locations is anticipated. In a highly accessible location adjacent to the A82 Trunk Road and within proximity to the Erskine Bridge which

provides access to the M8, Glasgow Airport and the wider strategic road network, the site provides the ideal opportunity to facilitate this additional development. Further, in line with Clyde Mission criteria, proximity to maritime assets along the Clyde present a possible future development opportunity for the site.

- 1.1.6 The project entails the delivery of roads access, development platforms and supporting infrastructure required to enable the development of this strategically important site including, crucially, new road accesses at the eastern and western extents along with a spine road which will link the two accesses and open the site for development.
- 1.1.7 The site does face some significant constraints and challenges which affect its ability to be brought back into effective economic use. There are several environmental designations in existence adjacent to the site including a Site of Special Scientific Interest (SSSI), a Special Protection Area (SPA) and a Ramsar Site (wetlands of international importance) which all have implications for the extent of the developable land as well as requiring mitigation measures to ensure environmental impacts are minimised.
- 1.1.8 The site is also constrained by its current transport links and new accesses are required. The site is bounded by the River Clyde, the Glasgow to Dunbartonshire and Argyll railway line (with Bowling station in close proximity), National Cycle Route 7, and the A82 Trunk Road and close to the Western terminus of the Forth and Clyde Canal. The creation of a new road through the site connecting to the A82 at the eastern and western extremities of the site will mean the developed site will benefit from excellent transport links.
- 1.1.9 The funding sought through the Glasgow City Region City Deal is required to deliver the transport, environmental and infrastructure works required to ready the site for development.

1.2 Business Case

- 1.2.1 This document represents the Full Business Case for the project. The Glasgow City Region City Deal Assurance Framework¹ defines the purpose of the FBC as part of a cycle during which the maturity and level of analysis of a project is developed, and its readiness for delivery and implementation advanced. The purposes of the FBC are described by the guidance as:
 - identify the spending option which optimises value for money (VFM);
 - preparing the scheme for procurement; and
 - put in place the necessary funding and management arrangements for the successful delivery of the scheme.
- 1.2.2 The Business Case has been compiled to meet the requirements of the Glasgow City Region City Deal Assurance Framework and seeks to ensure the proposed project meets the key criteria including:
 - providing a framework for informed decision making in planning and management of the project, the City Deal Programme and subsequent benefits realisation;
 - providing a clear and concise record of the status of the project and decisions made to date, and
 - providing a consistent approach of reporting across the City Deal Programme, which is especially important considering the Independent Panel which will appraise the economic impact of the investments at the city region level.

¹ Glasgow and Clyde Valley City Deal, The Glasgow and Clyde Valley Cabinet, Assurance Framework v2.5, 2021.

1.2.3 The Assurance Framework sets out the key requirements of the Business Case. This document has been structured to ensure transparency of the processes applied and an auditable account of the proposals. This document has been split into the following sections which track requirements as set out within the Assurance Framework:

- **Strategic Case** - To document why the project is required, what the project is, how it fits in with the City Deal Infrastructure Fund Programme and the wider local and national policy context and how it is intended to be implemented.
- **Economic Case - Options Appraisal** - To demonstrate how the preferred solution has been chosen and that all potential options were identified and compared, resulting in a Preferred Option that achieves all objectives and delivers best value for money.
- **Economic Case – Short List Analysis** - To identify the economic impact of the project.
- **Commercial Case** - To document the involvement of other parties and identify any challenges or risks this may present.
- **Financial Case** - To identify the forecast capital and revenue expenditure and income over the period of the project.
- **Management and Sustainability Case** - To assess whether the proposals are themselves sustainable and how they contribute to the wider sustainability agenda and to identify the team that will deliver the project, the proposed procurement process and the project schedule.

1.3 Project Contribution to City Deal Economic Case

1.3.1 The project directly contributes to the economic outcomes set out in the City Deal Infrastructure Fund. At a Glasgow City Region level, the project will enable the following benefits:

Employment Land Development

- 45,512m² employment floorspace by 2035
- up to 19.10 hectares of employment land made available, including development platforms by 2026

Private Sector Investment

- £43.8m (non-discounted) of additional private sector investment by 2037

Employment Support

- 935 net additional construction jobs by 2037
- 970 net additional operational jobs by 2037

1.4 Strategic Need for the Project

1.4.1 West Dunbartonshire performs below average when considering key macro-economic indicators for the Glasgow City Region City Deal area and Scotland. There is a lack of jobs in West Dunbartonshire with job density only at 0.69 per head (compared with the City Region average of 0.79 and the Scottish average of 0.81) and has a high dependence on public sector employment.

- 1.4.2 Overall skill levels of West Dunbartonshire residents are marginally below sub-regional and national comparators, but a relatively skilled workforce is still available in the area. However, the population of West Dunbartonshire is both falling and ageing.
- 1.4.3 Addressing these issues through the creation of additional employment land opportunities will have a significant impact across West Dunbartonshire and the wider City Region area.
- 1.4.4 The Exxon site is of the scale required to meet project objectives and is in single ownership, albeit that other land is required for access. The site would be the largest concentration of potential employment land in West Dunbartonshire. Should access and other constraints be addressed, a high-quality, well-located site would be available within the by 2026. The site has the potential to offer a broad range of development and employment opportunities. City Deal funding offers the opportunity to address the site constraints in a comprehensive manner.
- 1.4.5 The diversion route in the event of a closure of the A82 between the A82/A814 Dunglass Junction and the A82/A814 Dumbuck junction is via neighbouring adjacent local authorities and is some 29 miles or thereby – a key concern for major employers and an issue that potentially depresses demand elsewhere in the Council area and beyond (e.g. Argyll and Bute). Delivery of the proposed site infrastructure will provide an alternative route at a key section of the road that mitigates this critical issue.

1.5 Current Position

- 1.5.1 The 61.71 hectare site is owned by Esso Petroleum Company Limited (otherwise known as Exxon) and accommodated the Bowling Oil Terminal until its decommissioning, which began in 1997. Given flood risks and known ground conditions on the site, the maximum developable area, including roads and development plots, is 19.10 hectares with the remaining areas retained as greenspace.
- 1.5.2 Exxon has agreed to transfer the site to the Council following remediation of contaminated land; expected to be completed by December 2023.

1.6 Options

- 1.6.1 An appraisal of long list options consisted of three parts: options for the location of a sizeable economic investment site, options for the use of the site (economic activity) and options for access to the site (infrastructure requirements). These were reported in the Outline Business Case.
- 1.6.2 From the high-level options appraisal, the Exxon site was identified as best placed to meet project objectives through investment in the necessary access and supporting infrastructure.

1.7 Project Scope

- 1.7.1 The project will entail delivery of road access and the supporting infrastructure required to enable development of the site.
- 1.7.2 One of the fundamental infrastructure requirements is the construction of road network accesses at the eastern and western extents of the site linked by a spine road through the site which will enable it to be accessed for development.
- 1.7.3 The site requires substantial investment in site preparation prior to development taking place, including remediation works (to be completed by the current owners prior to transfer to the Council), creation of new roads infrastructure, flood, environmental and drainage mitigation, and development platforms.
- 1.7.4 The City Deal project consists of:

- 1.95km of new spine road with associated drainage and lighting infrastructure;
- 1.32km of upgraded existing public road (A814);
- a new junction on the A82 at Dumbuck with closure of the existing junction;
- a remodelled junction on the A82 at Dunglass;
- an enhanced routing of 475m of the National Cycle Network Route 7 in the vicinity of the site;
- a new underbridge of the Glasgow – Dumbarton Railway at the western access to the site;
- a remodelled railway overbridge at the eastern access to the site;
- flood mitigation works;
- environmental mitigation works (but not remediation);
- site drainage works; and
- establishment of platforms for development across the site.

1.7.5 Key milestone dates are anticipated as follows:

- Commencement of works – October 2023
- Completion of infrastructure works – December 2025
- Project Monitoring and Evaluation - December 2025 – March 2045

1.8 Forecast Cost

1.8.1 The estimated project cost is £44,324,635 derived from market tested contractors' costs based on the Detailed Design in June 2023.

1.8.2 It is anticipated that the Council's share of the investment will be £6,205,449, representing 14%, with the remainder being funded by grant from the UK and Scottish Governments through the City Deal.

1.9 Proposed Team and Project Management Arrangements

1.9.1 An experienced multi-disciplinary management team has been formed within the Council to deliver the project. External consultancy and contractor support has been appointed to support the Council. A City Deal Project Board meets on a four-weekly basis to oversee project delivery.

2 Strategic Case

2.1 Introduction

- 2.1.1 The Strategic Case for the project was set out in the Strategic Business Case (SBC) approved by the City Deal Cabinet in August 2015. The strategic need for the project was confirmed, and its key features outlined, in a revised Outline Business Case approved in March 2019.
- 2.1.2 In this FBC, the strategic need for the project, its key features and how it fits with the City Deal are updated and confirmed.

2.2 Strategic Need

KEY POINTS

- West Dunbartonshire's economic performance is below average for many macro-economic performance indicators for the Glasgow City Region City Deal area and Scotland.
- There is a lack of jobs in West Dunbartonshire with job density only at 0.69 per head and a high dependence on the public sector. The Glasgow City Region City Deal has 0.79 jobs per head and Scotland 0.81.
- The diversion route in the event of a closure of the A82 between the A82/A814 Duglass Junction and the A82/A814 Dumbuck junction is via neighbouring adjacent local authorities and is some 29 miles or thereby.

The 'problem and the need'

- 2.2.1 This section provides a summary of the socio-economic baseline conditions within West Dunbartonshire and sets the context within which the longer-term impact of the proposed development will be measured. The baseline also delivers a current and prospective overview of the area, identifying constraints and barriers to growth as well as opportunities for development. These represent the foundation for assessing the need that will be met by the proposed development.
- 2.2.2 To ensure a thorough understanding of the socio-economic context in West Dunbartonshire, the baseline position is considered against the Glasgow City Region City Deal area and the national picture which are used to benchmark the local performance. Information is provided on the following socio-economic indicators:
- Gross Value Added (GVA);
 - Employment performance and key sectors;
 - Business demography;
 - Demography;
 - Earnings;
 - Occupations and skills;
 - Unemployment;
 - Deprivation.
- 2.2.3 The results of the socio-economic analysis are summarised in the form of a Strengths, Weaknesses, Opportunities and Threats (SWOT) analysis of the West Dunbartonshire economy and presented in the table below.

Table 2-1 SWOT Analysis of West Dunbartonshire Economy

Socio – economic STRENGTHS	Socio – economic WEAKNESSES
<p>Location – the area has good links to the motorway network, Glasgow airport and to the city of Glasgow; it also benefits from its proximity to Loch Lomond and Trossachs National Park.</p> <p>Environment – the area has some of the most outstanding countryside in lowland Scotland, with around 40% of land classified as open countryside.</p>	<p>Population – the area’s population has been declining since 1981 as opposed to Scotland’s population which has risen over this period.</p> <p>Life expectancy – life expectancy at birth is lower than the Scottish average.</p> <p>Skills - on average, skills levels of residents are lower than sub-regional and national comparators.</p> <p>Economic performance – West Dunbartonshire continues to suffer from high levels of deprivation, high levels of unemployment and a smaller business base than the Glasgow City Region City Deal area and Scotland.</p> <p>Out-commuting - there is a net outflow of residents to jobs elsewhere.</p>
Socio – economic OPPORTUNITIES	Socio – economic THREATS
<p>Regeneration initiatives – Waterfront (Queens Quay), Scottish Marine Technology Park, Clydebank, Dumbarton Waterfront, Strathleven and Alexandria are all examples of urban renewal where new homes, jobs and services can be created for the benefit of all.</p>	<p>Population ageing – the age group that is projected to increase the most in size in West Dunbartonshire is the 75+ age group while the population aged under 16 is projected to decline over the next 20 years.</p> <p>Population projections – the population of West Dunbartonshire is projected to fall.</p>

Baseline Assessment

2.2.4 The socio-economic assessment of West Dunbartonshire paints a picture of an area suffering from persistent economic and structural challenges that characterise those areas formerly dependent on heavy industry. A full baseline assessment can be found in Appendix A In summary, the area is not showing strong signs of recovery and is facing several challenges in terms of:

- **Macro-Economic performance:** the GVA growth rate is below the Glasgow City Region City Deal and Scotland averages and labour productivity is also lower than the national average;
- **Employment performance:** employment in West Dunbartonshire is dominated by the service sector, and specifically, by public services and retail and catering; job density is at 0.69 meaning that there is less than one job for every resident aged 16-64, and a lower value the national (0.81) comparator;
- **Business demography:** the area has a smaller business base than the Glasgow City Region City Deal area and Scotland;
- **Labour market:** on average, skill levels of residents are lower than regional and national comparators and there are higher levels of unemployment than nationally; and
- **Population:** the population of West Dunbartonshire is not only decreasing but is also ageing.

- 2.2.5 The Exxon project presents a significant opportunity for these problems – in part – to be addressed.

Rationale for Intervention

- 2.2.6 This section identifies the core requirements for transformational change in the West Dunbartonshire economy as:

- identification of the key sectors required to achieve it and their likely needs; and
- identification of large-scale sites which provide an opportunity for their comprehensive development and scope for expansion; and
- establishment of the infrastructure requirements associated with different options.

- 2.2.7 The analysis of each of these areas clearly shows high quality, effective employment sites of scale are needed to meet the challenges facing West Dunbartonshire's economy.

- 2.2.8 The Exxon site is allocated for industrial/business opportunities in the proposed Local Development Plan 2 (LDP). The strategy for the site includes “the re-development of the Esso Bowling site primarily to increase the business and industry opportunities within West Dunbartonshire”.

- 2.2.9 The West Dunbartonshire Council Adopted Local Plan identifies the site as a Specialised Economic Development location and provides a reasoned justification:

“The Glasgow and the Clyde Valley Joint Structure Plan 2000 designated the former ESSO Bowling Terminal as a Potential High Amenity Single User site. This was on the basis of the guidance in NPPG 2. However, this has now been superseded by SPP 2 which indicates that the existing supply of proven safeguarded sites should be able to meet future requirements. The Structure Plan 2006, in cognisance of SPP2, deletes all Potential Single User sites including Bowling. The site is therefore considered suitable for multiple economic development uses. However, it is recognised that the remediation and access costs of developing the site for business uses will require other mixed uses to facilitate development of the site. The site is within a Core Economic Development Area (CEDA). The site has not been placed in the Marketable Industrial Land Supply but areas within the terminal site may be added to the supply as proposals for the site to be redeveloped are brought forward.”

- 2.2.10 As demonstrated in the policy analysis below, the rationale for the intervention is supported by the land use planning context as set out in National Planning Framework 4, the Adopted Local Plan 2010 and Proposed Local Development Plan 2 that support the regeneration and development of the site.

- 2.2.11 Additionally, in the event of a closure of the A82 between the A82/A814 Dungleigh Junction and the A82/A814 Dumbuck junction is via neighbouring adjacent local authorities and is some 29 miles or thereby. This has a knock-on effect for residents, visitors and businesses that rely on the arterial route. The proposed intervention provides a suitable route to the south of the A82 that negates the need for a lengthy diversion, creating wider benefits to those working, living, or visiting the West Highlands or the wider City Region.

- 2.2.12 Furthermore, the site also offers strategic advantages through its deep-water frontage, providing the opportunity for supporting supply chain businesses in the marine construction industry that is present within West Dunbartonshire.

Market Failure

- 2.2.13 HM Treasury Green Book guidance requires the investment rationale underpinning public sector interventions to clearly demonstrate any apparent market failure or provide evidence of where government distributional objectives are not being met.
- 2.2.14 Market failure is described as a situation whereby the allocation of goods and services is not efficient. The Green Book describes market failure as a situation “where the market mechanism alone cannot achieve economic efficiency”.
- 2.2.15 The infrastructure interventions proposed for the Exxon site, i.e. new access routes and infrastructure, show characteristics of pure public goods, namely:
- **Non-excludability:** the benefits derived from the proposed infrastructure interventions will not be confined solely to those funding them. Although the benefits to private sector developers will be captured in part by increased property and site values, it is likely the more significant benefits from the comprehensive regeneration initiated by the intervention will be enjoyed more broadly across the area and beyond; and
 - **Non-rival consumption:** the marginal cost of an extra person using the proposed road infrastructure will be zero, i.e., its use by one person or group does not restrict its use by other users⁴.
- 2.2.16 Non-excludability and non-rival consumption jointly create a disincentive for the private sector to cover the full cost of the Exxon site infrastructure needs due to the potential free-rider problem, i.e., non-payers enjoying the benefits of the proposed interventions without bearing any financial costs. Therefore, public sector intervention is required to bridge the funding gap to develop public goods.
- 2.2.17 The market failure associated with public goods in the context of current transport provision to the site, underpins the socio-economic rationale for the project. The key market failure associated with the area surrounding the project, falls into three main themes:
- **Physical limitations:** whilst the public sector has identified the potential for development in this area, it is anticipated that comprehensive development will not take place until the infrastructure challenges identified are addressed⁵. Poor site access hampers business perceptions of the area and acts as a barrier to further growth. Public sector intervention de-risks the site and enhances the site’s development viability. In turn, the anticipated follow-on investment, indicated by discussions with potential site occupiers, will generate additional employment opportunities for local people. Additional road infrastructure to the south of the A82 will support residents and businesses in the local area and wider Scotland in the event of a closure of the A82. This type of infrastructure is unlikely to be funded by those users due to non-excludability and non-rival consumption jointly creating a disincentive for the private sector to cover the full cost.
 - **Operational limitations:** if left to the private sector, it is likely that development of the area, if any, would be fragmented and piecemeal as better opportunities are presented elsewhere. Without public investment in a comprehensive development platforming approach to address flood and drainage requirements, development would be limited to a small proportion of the site or would not happen at all. The infrastructure interventions proposed, and the intended use of the site, pave the way for West Dunbartonshire’s

² HM Treasury Green Book Guidance, 2022

³ HMT, *The Green Book Appraisal and Evaluation in Central Government*, 2022. p.13

⁴ This assumes the proposed infrastructure will not have limiting capacity constraints.

⁵ Land contamination issues have now been resolved.

economy to diversify its portfolio of companies, increasing the area's skills base and protecting the local economy from macroeconomic risks.

- Geographical limitations: the river location has been neglected for many years, due to the required remediation and access constraints but offers significant opportunities for creation of attractive employment land on the banks of the River Clyde.

2.2.18 Without the enabling infrastructure, the Exxon site cannot be brought to the market as the private sector will not fund the scale of enabling infrastructure required. Public sector investment will enable the socio-economic challenges facing the area to be addressed by removing the market failures which presently constrain development. The creation of a bespoke access route through the site from the A82 will support further diversification of the area's employment base, particularly through opportunities presented to the storage, distribution, and advanced manufacturing industries.

2.2.19 The Council is well placed to oversee this project but requires external funding support to deliver the most efficient infrastructure solution for the area and fully exploit the opportunities presented by the additional employment land. The level of funding required to complete the infrastructure and release the much-needed employment land for the area would not be able to be fully met by the Council in a timescale that would make a discernible difference to the area. Further detail on the exploration of alternative sources of funding is contained within the Economic and Financial cases.

2.2.20 Investment in the infrastructure would not otherwise happen without City Deal investment to deliver economic regeneration of a significantly large enough scale, or as currently planned. By improving the quality of the proposed infrastructure, the intention is to increase the area's capacity for further socio-economic prosperity. As demonstrated in subsequent sections of this FBC, the City Deal investment programme provides the economic potential to support 29,000 additional jobs and £2.2 billion of GVA growth per annum. The project will thus contribute towards the achievement of City Deal employment and GVA outcomes and priorities, by unlocking socio-economic opportunity through high quality transport investment that would otherwise not happen.

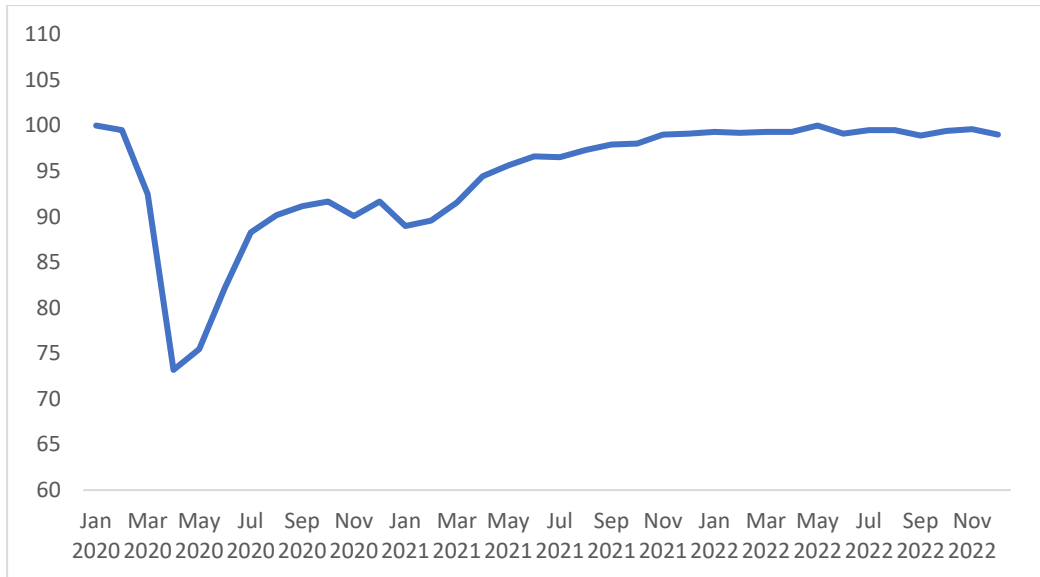
2.2.21 The financial costs associated with the project have been analysed in line with the investment required and available to the public sector. This has been carried out in line with the strategic rationale, economic need and potential for the area, including unlocking additional economic value from leveraged City Deal investment; unlocking investment earlier than would otherwise be achieved (i.e. the difference between the full intervention and the counterfactual (base) case and 'Do Minimum' scenario); and delivering sound value for money for the public purse that is realistic, sufficient in scale and strategically relevant.

Why the Project is Needed Now

COVID-19 Pandemic Impact

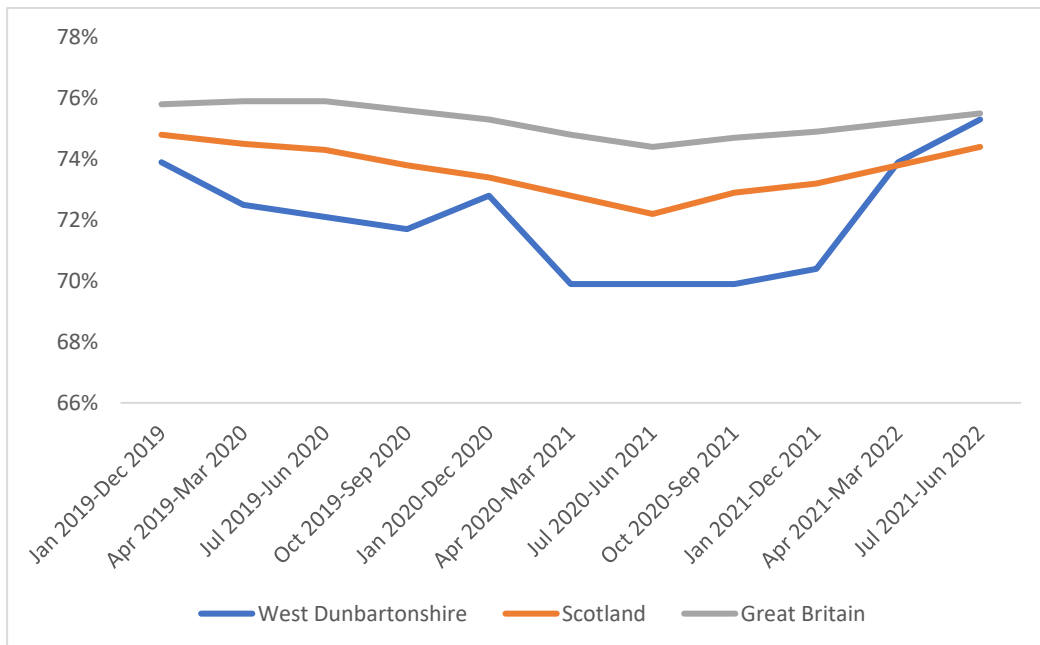
2.2.22 At a national level, the UK Gross Domestic Product (GDP) – a measure of economic output – fell by an estimated 21.8% in Q1 2020. While strong growth in the latter half of 2020 stimulated a 'V-shaped' economic recovery, subsequent targeted lockdowns in COVID-19 hotspots throughout 2021, meant that the UK economy has been slow to recover to pre-pandemic levels. GDP only returned to its pre-pandemic peak in May 2022 and GDP growth has flatlined since as shown below.

Figure 2-1 Real GDP, Jan 2020 = 100



2.2.23 Scotland’s economy witnessed a similar pattern of slower growth. While a large public sector employment base provided a degree of shelter from pandemic-induced labour impacts, longer lasting restrictions meant economic recovery trailed the wider UK’s as shown below.

Figure 2-2 Employment Rate



Commercial Property

2.2.24 Analysis of for the Proposed LDP highlights the following key points:

- Take-up over the years 201-2018 equated to more than three times the ten-year average which if this trend continues will diminish the existing supply;

- The majority of the existing supply is marketable and therefore immediately available for development;
- There is a significant amount of non-marketable supply, equating to around 18 years supply, which includes existing industrial sites and sites reserved for business expansion. This includes the Exxon site, itself equating to almost 12 years supply.

2.2.25 Project options of suitable scale in West Dunbartonshire are limited to Lomondgate, Vale of Leven Industrial Estate and the Exxon site. Each of the options has a supportive planning designation.

Lomondgate

2.2.26 Lomondgate has successfully developed the BBC's presence at its Dumbarton studios, while also safeguarding and securing the headquarter presence of Aggreko in West Dunbartonshire. In May 2022, the company completed a £4.5 million 'sustainably resourced low-carbon expansion' of its production facility on the site⁶. While the momentum generated by its development will increase demand for floorspace in West Dunbartonshire, other large-scale opportunities will also be required to realise the required step change in economic activity.

Vale of Leven Industrial Estate

2.2.27 The Vale of Leven Industrial Estate (VoLIE) is an industrial site that has fallen into decline. While home to Chivas – employing over 1,000 employees – it is also home to several vacant buildings and lower productivity operators that, whilst a necessary part of the local economy, fail to generate the higher-value GVA that West Dunbartonshire is seeking. The site has the potential to be redeveloped into a modern, competitive business location, but there are some challenges that need to be addressed.

2.2.28 One of the biggest challenges is the poor condition of the site. Many of the buildings are in disrepair and there is a lot of litter and graffiti. This creates an air of neglect and makes the site unattractive to potential investors. Another challenge is the lack of a cohesive management regime. The site is owned by several different companies, which makes it difficult to coordinate development and maintenance. This has led to a patchwork of different uses and standards, which makes the site look untidy and inconsistent.

2.2.29 Despite these challenges, there are multiple reasons to be optimistic about the future of the VoLIE. The site is in a strategic location, close to Glasgow and the M8 motorway – not too dissimilar to the Exxon site. It is also home to important industrial employers (e.g., Chivas Bros and Diamond Power) which could provide a platform for the Estate's regeneration.

Queens Quay

2.2.30 Queens Quay is progressing successfully. It has provided, and will continue to provide, employment opportunities in the area as key pieces of planned enabling infrastructure come forward. There are already several completed developments at Queens Quay, including:

- A £23.5 million leisure centre
- A new Clydebank health and care centre Care Centre
- 1,000 new diverse homes

⁶Available at: <https://www.scottishconstructionnow.com/articles/aggreko-completes-ps45m-expansion-of-dumbarton-site>

- 500,000 sq.ft of Grade A office space
- State-of-the-art leisure centre
- UK’s first zero carbon green energy centre.

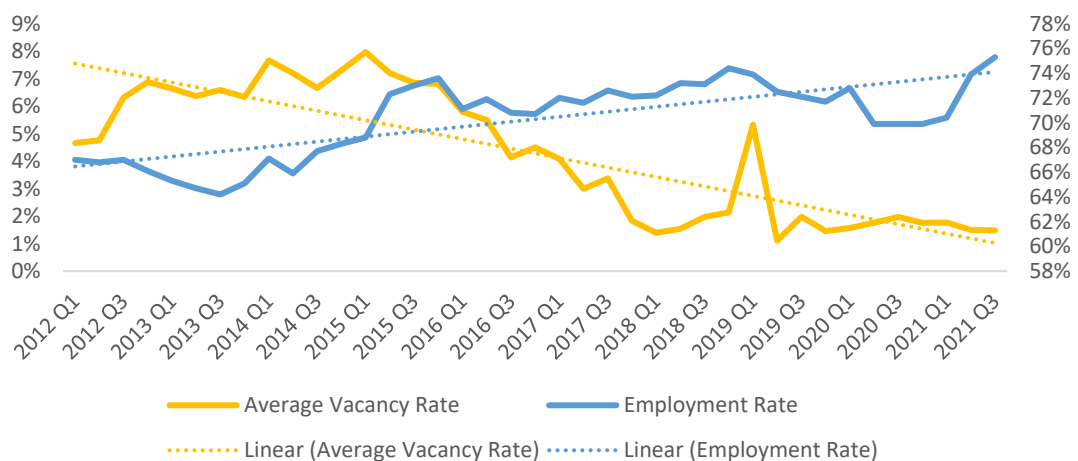
2.2.31 In summary, West Dunbartonshire has the potential for further commercial development in its local economy. The area has several strengths that make it attractive to businesses, including a skilled workforce, a good transport network, a strong track record of innovation, and a commitment to sustainability. The development of the Exxon site will be a major opportunity for West Dunbartonshire to attract new businesses and boost its local economy. The site is in a prime location and has the potential to create hundreds of jobs. This makes it an ideal location for businesses that want to access a large market.

2.2.32 The development of the Exxon site is just one example of the opportunities that exist for commercial development in West Dunbartonshire. The area has a bright future and is well-placed to attract new businesses and investment.

2.2.33 On this basis, public sector investment is required to bring the site to a marketable condition to cater for anticipated demand for quality employment land as the area’s employment land supply becomes tighter.

2.2.34 If the sites are available, West Dunbartonshire has shown it can attract jobs. The figure below shows a comparison between the average commercial vacancy rate in West Dunbartonshire, versus the areas employment rate. As expected, the opposing directions of the linear lines indicate a relationship between lower vacancy rates and higher employment, suggesting that as commercial properties come online, West Dunbartonshire can meet the demand for jobs.

Figure 2-3 Vacancy Rate vs. Employment Rate in West Dunbartonshire



In summary, the strategic need and rationale for investing in the Exxon project now is:

- there is a constrained employment land supply identified in West Dunbartonshire. While VoLIE has some issues that are being resolved, these don’t reflect the demand for quality commercial land that the Exxon site addresses. Lomondgate is nearing capacity and Queens Quay is well developed;
- the Exxon site presents an attractive waterfront and remediated area of employment land;
- City Deal money has become available that will allow the Council to progress the site with all the necessary infrastructure.

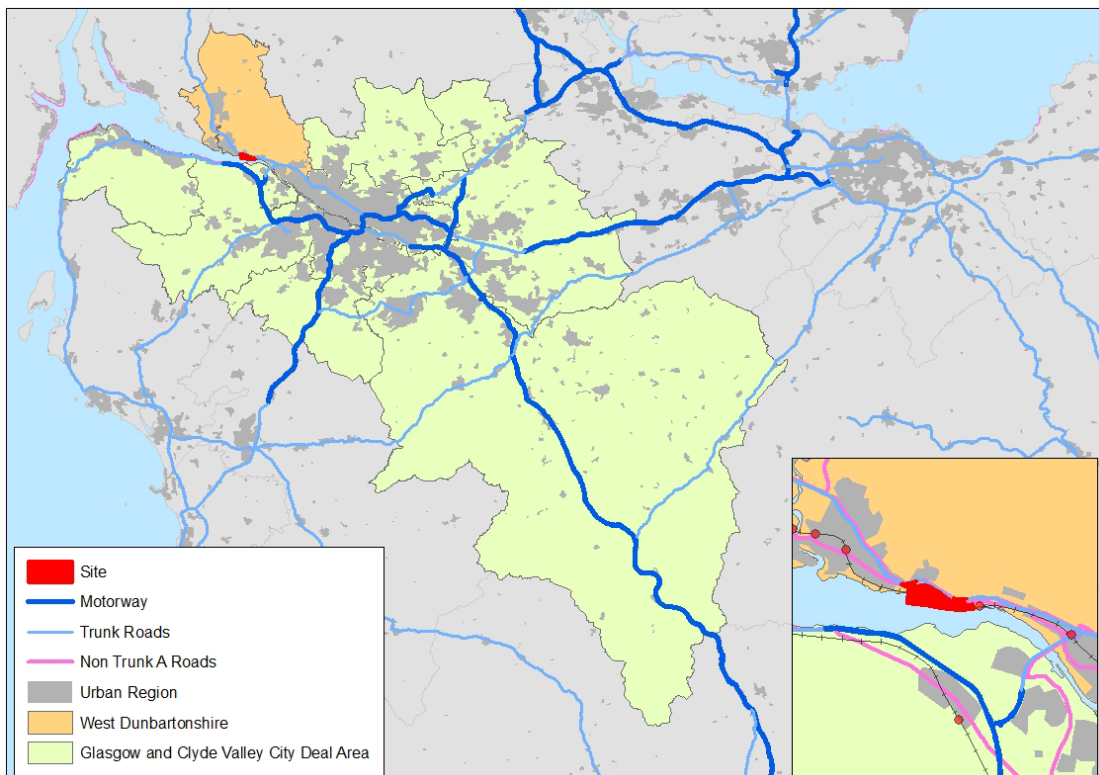
2.3 Existing Arrangements

KEY POINTS

- The site is the former home of the decommissioned Bowling Oil Terminal and covers an area of 61.71 hectares.
- The site is currently disused and only generates economic activity from the decontamination works ongoing periodically as all fully commercial activity has ceased.
- Remediation of contaminated land and provision of suitable enabling infrastructure would allow the economic development potential of the site to be unlocked.
- Road closures on this section of the A82 mean a diversion of some 29 miles.

- 2.3.1 The figure below shows the location of the site on the north bank of the River Clyde, between the towns of Dumbarton and Clydebank. The site is around 16 km / 10 miles from Glasgow City Centre. It is in a strategic position on the transport network being adjacent to the A82 Trunk Road within proximity to the Erskine Bridge which provides links to the M8 and wider strategic road network. It is situated in an ideal location at the gateway to the Vale of Leven and Loch Lomond as well as onwards to Argyll and the Highlands whilst also being within proximity to the Glasgow city region. It consequently offers several competitive advantages.

Figure 2-4 Site Location in Context



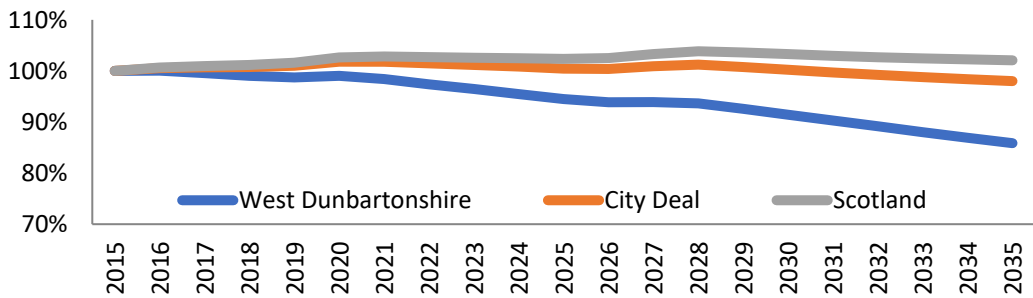
- 2.3.2 The wider site area (including mudflats and river) extends to 61.71 hectares of which the land element comprises 39.45 hectares. It has been owned and operated by Exxon for over 80 years. The site is disused and was demolished to ground level in 1997. Since closure, the entire Bowling site has become surplus to Exxon's operational requirements and a disposal strategy is being progressed.

- 2.3.3 Currently the site makes virtually no contribution to economic activity in the area (only from periodic remediation works) as all fully commercial activity has ceased. In its current condition, it cannot be brought back into effective use and requires investment in suitable infrastructure (City Deal investment) to unlock its potential as a major centre of economic activity, generator of jobs and contributor to GVA at a local and regional level. Without the requisite investment in infrastructure, it is difficult to see how the site could ever become developable again.
- 2.3.4 Road closures on this section of the A82 would continue to cause onerous diversions for residents, visitors and businesses that rely on this arterial route. The construction of the spine road and supporting junction works will help to mitigate this diversion, improving the reliability of the A82, giving confidence to the road users from across the City Region and West Highlands.

What Would Happen Without the Project? (The Counterfactual)

- 2.3.5 The site makes limited contribution to economic activity in the area (only periodic decontamination works) as all commercial activity has ceased. It cannot be brought back into effective use without investment in enabling infrastructure.
- 2.3.6 Under the counterfactual scenario the site will continue as disused brownfield land and as demonstrated above, the latent demand for land in West Dunbartonshire will not be able to be satisfied by this site. The City Deal intervention not only supports better access to fuller development capacity of the area but brings development forward earlier to support the overall City Deal programme timeline (up to 2035).
- 2.3.7 It has been demonstrated that the market failure present will continue to prevent market interest in the site and with no other sites of a similar scale in West Dunbartonshire currently being able to satisfy the demand for expanding or inward investing businesses, the economic performance of the area will continue to decline. Noting that Carless (17ha.), a site currently under development, is of a smaller scale than the Exxon site (33ha.).
- 2.3.8 The counterfactual situation will most likely lead to a widening of the jobs deficit that exists in West Dunbartonshire with an associated pressure on neighbouring areas as residents either commute to them to take up the employment opportunities that they offer, or residents move away from West Dunbartonshire to more prosperous economic areas. With working age population already forecast to fall, this could compound a negative trend in West Dunbartonshire as shown below.

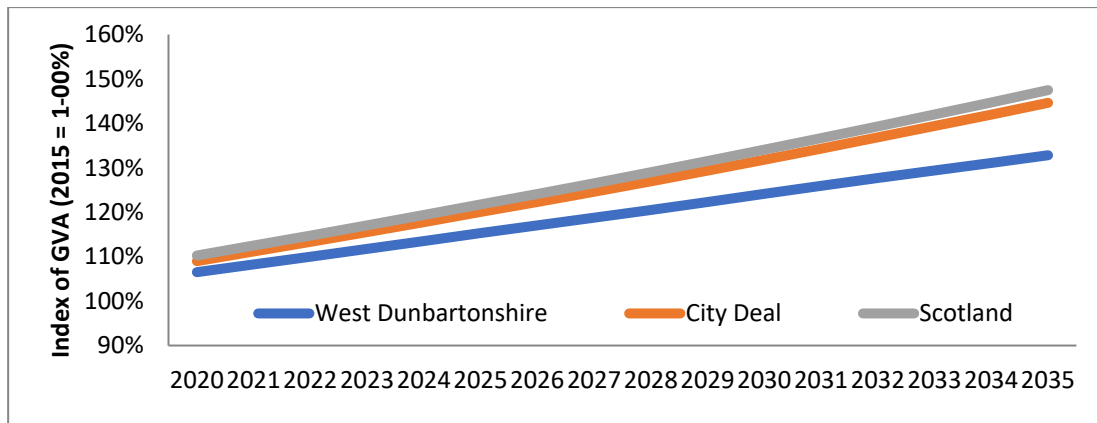
Figure 2-5 Forecast Change in Population of Working Age



- 2.3.9 The development of the Exxon site into a valuable economic asset will help to create additional job opportunities in West Dunbartonshire. Through the provision of attractive, high value employment opportunities in the local area, it is anticipated that West Dunbartonshire will be able to retain and attract a working age population, helping to stem forecast decline.
- 2.3.10 The forecast in terms of GVA presented in Figure 2-6 shows that although GVA in West Dunbartonshire is expected to increase from 2015 to 2031, this increase will be lower than the

regional and national rates. Exploring further and looking at the changes in the structural composition of the economy in West Dunbartonshire we expect that the public sector and retail sector will continue to expand while manufacturing and construction are likely to contract. In addition, the annual average growth rate in productivity (expressed as GVA per total FTE jobs) is estimated to be significantly higher than the average rate for Scotland and the Glasgow City Region City Deal area for agriculture and significantly lower for finance and insurance.

Figure 2-6 Forecast Change in GVA



2.3.11 Chained Volume Measures (CVM) are defined as a series of economic data from successive years. They are measured in real terms by calculating the production volume for each year in the prices of the preceding year and then 'chain linking' the data together to obtain a time-series of production figures. From this approach, the effects of price changes have, at least in theory, been removed. In other words, from the raw GDP or GNP data, which reflect changes in both production volume and prices, a series is obtained which reflects only production volume.

2.3.12 The figures below show that in the absence of the project, the industrial structure is expected to remain relatively static. The project is required to affect change in the local economy's employment structure, helping to diversify an area heavily reliant on public-sector employment. The additional space, made up of mostly storage and distribution, manufacturing and office, is expected to create a range of opportunities, helping to address local unemployment issues in the process.

Figure 2-7 Forecast Change in Chained Volume Measure (CVM) in West Dunbartonshire

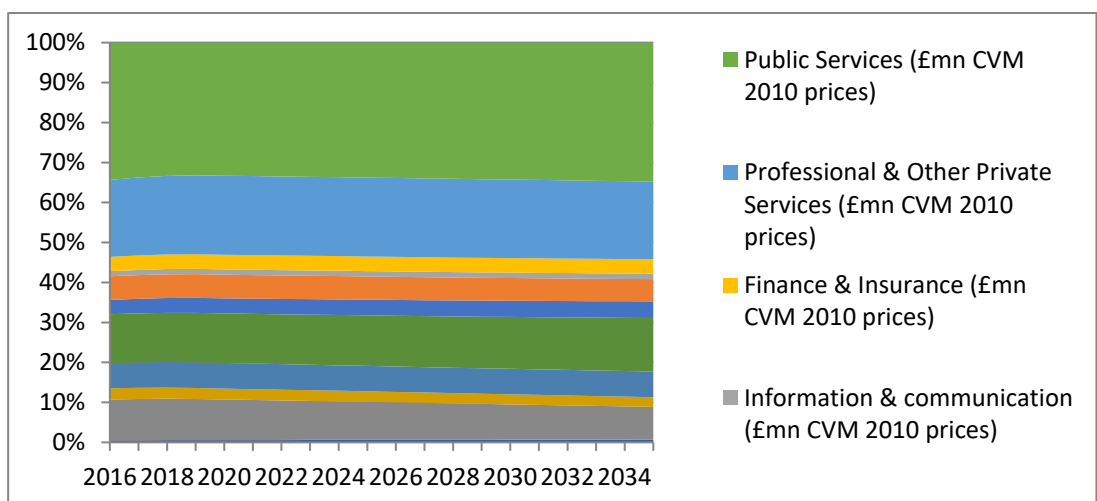
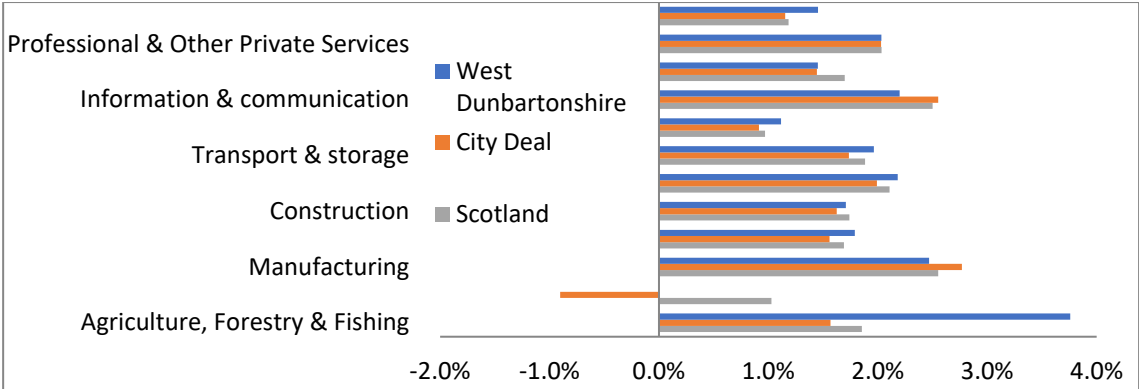


Figure 2-8 Average Annual Growth Rate of Sectoral Productivity 2015 - 2035



- 2.3.13 It can be seen from Figures 2-7 and 2-8 that the counterfactual scenario will have an adverse impact on the economy of West Dunbartonshire and that there are significantly more benefits to be realised by enabling the site to be brought into a developable state.
- 2.3.14 Private sector investment to the extent required to provide the necessary access, flood risk mitigation and associated infrastructure is unlikely to be forthcoming, especially as the site cannot be used for housing – a restriction of the Title.
- 2.3.15 Indicative of the market failure present, the absence of City Deal funding the investment required to ensure the site is brought back to economic use would be very difficult to find.
- 2.3.16 Previous attempts have been made to interest the market in the site without success. Enquiries related to the potential for waterfront uses and access to the Clyde were received. However, site conditions, access through the site and the overall conditions likely to be attached to land transfer were barriers in progressing them. The Council also received tentative enquiries some years ago from a tree logging company seeking a site for a Sawmill. However, site conditions, including access and scale of the site for this single use made this unviable for the business.

2.4 Strategic and Policy Context for the Project

KEY POINTS

- The project is supported by National Planning Framework 4 which sets a positive framework for the redevelopment of brownfield land.
- Increasing the access to a range of opportunities through the development of a mixed site.
- Delivery of transport benefits to the wider area through the creation of a supporting spine road to the A82.
- The proposed Local Development Plan 2 (LDP) identifies a need to ensure that there is sufficient shovel ready business and industrial land available and capable of meeting the needs of businesses within West Dunbartonshire. It also supports proposals for business and industrial allocated sites.
- The proposed LDP identifies the site to increase the business and industry opportunities within the Council area.
- The West Dunbartonshire Council Adopted Local Plan identified the site as a Specialised Economic Development Site.

- Clyde Mission has identified the site as a priority project with potential to deliver against the five Clyde Missions, which would benefit from development support.

- 2.4.1 This section of the Business Case explains how the project aligns with the vision, objectives, and policies of relevant national, regional, and local policy documents and with the City Deal.

Strategic fit with National Policy

Scottish Government Strategic Objectives and Outcomes

- 2.4.2 The Government has five objectives that underpin its core purpose - to create a more successful country, with opportunities for all of Scotland to flourish, through increasing sustainable economic growth. Objectives are set as follows:

- **Wealthier and Fairer** - Enabling businesses and people to increase their wealth and more people to share fairly in that wealth.
- **Healthier** - Helping people to sustain and improve their health, especially in disadvantaged communities, ensuring better, local, and faster access to health care.
- **Safer and Stronger** - Helping communities to flourish, becoming stronger, safer places to live, offering improved opportunities and a better quality of life.
- **Smarter** - Expanding opportunities to succeed from nurture through to lifelong learning ensuring higher and more widely shared achievements.
- **Greener** - Improving Scotland's natural and built environment and the sustainable use and enjoyment of it.

- 2.4.3 In addition to the five National Objectives, the Scottish Government has set Sixteen National Outcomes which help to articulate more fully the Government's Purpose. They allow priorities to be clearly understood and provide a clear structure for delivery.

- 2.4.4 Of the 16 National Outcomes, the proposed Exxon site development contributes to 6 as follows:

- **We live in a Scotland that is the most attractive place for doing business in Europe** – The proposed development will help diversify the local and regional business base and provide robust and reliable physical infrastructure that helps businesses grow and compete internationally. In addition, the site will enable an attractive waterfront development that is well connected to strategic assets such as Glasgow Airport.
- **We realise our full economic potential with more and better employment opportunities for our people** – The proposed development can provide high quality employment opportunities and make a positive contribution to increasing the prosperity and wealth of West Dunbartonshire. The site will allow West Dunbartonshire to make efficient use of available space, helping the area and the wider City Region to realise its full economic potential.
- **We are better educated, more skilled and more successful, renowned for our research and innovation** – The proposed development will help reduce economic inactivity and provide the type of accommodation that may be attractive to companies offering high quality learning and development opportunities to encourage skills development.
- **We have tackled the significant inequalities in Scottish society** – The proposed development can contribute to improving access to the labour market for the poorest and most disadvantaged and tackle the significant inequalities in the area.

- **We live in well-designed, sustainable places where we are able to access the amenities and services we need** – The proposed development will represent an environmentally, socially and economically sustainable place providing easy access to a range of workplaces and services for people in the area and attracting and retaining the skills and talent required to achieve sustainable economic growth. The infrastructure interventions will support residents and businesses that rely on this important network between the West Highlands and the City Region.
- **We value and enjoy our built and natural environment and protect it and enhance it for future generations** – The proposed development will have significant positive land-use impacts on the local community, and on the natural and built environment.

2.4.5 Scotland's Economic Strategy was published by Scottish Government on 3rd March 2015. It sets out an overarching framework for a more competitive and fairer Scotland and forms the strategic plan for existing and all future Scottish Government policy. The Strategy is based on two key pillars: increasing competitiveness and tackling inequality. Delivering the required infrastructure to enable the development of the Exxon site, will directly contribute to 'realising Scotland's full economic potential with more and better employment opportunities for our people'.

2.4.6 Table 2-2 below provides a summary of how the proposed development fits with the main national policy and/or strategy documents.

Table 2-2 Project fit with National Policies and Strategies

Policy/Strategy Document	Status and Purpose of Document	Relevance for Proposed Project
<p>Levelling Up the United Kingdom</p>	<p>Published February 2022, the Levelling Up White Paper sets out how we will spread opportunity more equally across the UK.</p>	<p>The UK Government is committed to 'levelling-up' across the whole of the United Kingdom. Part of the levelling-up agenda relates to improving transport links and investing in infrastructure that improves everyday life across the UK, particularly in areas of high deprivation. It also aspires to restore local pride across the UK through the regeneration of communities and places.</p> <p>In the context of this project, the 'levelling-up' comprises of improved access to employment sites and related opportunities in West Dunbartonshire.</p> <p>Physical capital – the project directly invests in infrastructure required to support commercial development in West Dunbartonshire.</p> <p>Human capital – the commercial space enabled will help to support access to employment opportunities in West Dunbartonshire and the wider City Region, helping to 'level up' communities and their skills.</p> <p>Intangible capital – the commercial space enabled will help to drive innovation, ideas and patents.</p>
<p>Scotland's National Strategy for Economic Transformation</p>	<p>Published by Scottish Government on 1st March 2022. Sets out the priorities for Scotland's economy as well as the actions needed to maximise the opportunities of the next decade to achieve our vision of a wellbeing economy.</p>	<p>The Strategy is based on delivering a fairer, wealthier, and greener Scotland. It aims to make Scotland's businesses, industries, regions, communities, and public services more productive and innovative.</p> <p>Development of the Exxon site will directly work towards achieving investment in infrastructure and assets and indirectly supports innovation, inclusive growth and internationalisation through the investment in people, achieved by the follow-on investment and future occupiers.</p>

Policy/Strategy Document	Status and Purpose of Document	Relevance for Proposed Project
<p>Scottish Enterprise 2021/22 Business Plan</p>	<p>Published by Scottish Enterprise in 2021, the plan sets out the priorities and areas of focus of Scottish Enterprise and what they will deliver.</p>	<p>The Business Plan builds on the growth opportunities identified in Scotland’s Economic Strategy and places an emphasis on working with regional partners to accelerate the Clyde Mission, driving sustainable and inclusive growth for the city, region and Scotland. Once enabled for development, the Exxon site will support a wide range of businesses in key sectors at a critical point on along the Clyde, particularly in the support of the marine industry which is prominent in West Dunbartonshire. Furthermore, the development will support short term employment in the construction industry.</p>
<p>National Planning Framework 4</p>	<p>Published by Scottish Government on 13th February 2023. National Planning Framework 4 (NPF4) is our national spatial strategy for Scotland 2045. It sets out our spatial principles, regional priorities, national developments, and national planning policy.</p>	<p>The vision of this long-term spatial strategy is to build a Scotland which has: sustainable places, where we reduce emissions, restore and better connect biodiversity; liveable places, where we can all live better, healthier lives; and productive places, where we have a greener, fairer, and more inclusive wellbeing economy. The Strategy is supportive of regeneration of the Glasgow City Region to address nationally significant and longstanding issues of disadvantage. Clyde Mission is identified as a national, place-based Mission to make the Clyde an engine of economic success for Glasgow and the city region. Significant land assets are under-utilised and long standing inequality in relation to poor environment and health outcomes require to be tackled The Clyde Mission, which covers the Exxon site, as National Developments together with Central Scotland Green Network including West Dunbartonshire area. The development of the Exxon site will help to achieve the vision of the spatial strategy through the re-use of vacant land, supporting employment in the area and through enhancing the connectivity in the area.</p>
<p>A Manufacturing Future for Scotland</p>	<p>Published by Scottish Government 15th February 2016</p>	<p>Action Plan to work with industry to: Deliver concrete initiatives to boost productivity including leadership, employee engagement and skills, energy efficiency and the adoption of circular economy approaches across the manufacturing sector. Stimulate innovation and investment in Scottish manufacturing sectors to better compete globally. Manufacturing jobs in Scotland are typically high-skilled and well-paid. Sector specific support can therefore support regional growth, address employment and wage imbalances and establish high value supply chain linkages. The Council, in conjunction with managing the infrastructure works, will continue to market the site to high value sectors.</p>

Policy/Strategy Document	Status and Purpose of Document	Relevance for Proposed Project
<p>UK Industrial Strategy: Building a Britain fit for the Future</p>	<p>Published by the British Government 27th November 2017.</p>	<p>The vision of this industrial strategy is to create an economy that boosts productivity and earning power throughout the UK. It identifies the 5 foundations of productivity as:</p> <p>Ideas - encouraging an increase in investment in Research & Development to 2.4% of GDP by 2027, increasing fiscal incentives for R&D and investing £725m in Industrial Strategy Challenge funds to support industrial innovation;</p> <p>People - developing world-class technical education standards and facilities, investing in STEM subjects, and establishing a National Retraining Scheme;</p> <p>Infrastructure - increasing National Productivity Infrastructure funding to £31bn, supporting housing, transport and digital infrastructure; supporting higher capacity digital and utilities infrastructure;</p> <p>Business environment - establishing Sector Deals between Government & industry to boost productivity. Investment in high potential business will also be strengthened; and Place - agreeing local Industrial Strategies harnessing local strengths and opportunities. Improved connections to and between cities are also supported.</p> <p>The Exxon site is consistent with the ambitions of the national Industrial Strategy in that it will tackle barriers to growth and assist productivity gains by increasing the supply of employment land in West Dunbartonshire. The project will create high quality jobs assisting the redress of inequalities at the local authority and City Region level.</p>
<p>Enterprise & Skills Review</p>	<p>Announced by the Scottish Government in May 2016. Now in implementation phase, the review is being overseen by the Enterprise and Skills Strategic Board.</p>	<p>The Enterprise & Skills Review (ESR) was prepared in part to guide the development of regional approaches to economic development while pursuing Scotland's Economic Strategy. It recognises the significance of improved regional performance in driving national growth. The ESR accordingly promotes locally driven responses tailored to local and regional needs. It promotes programmes which can deliver measurable success against five high level Inclusive Growth outcomes:</p> <p>Economic Performance & Productivity – resilient, sustainable and inclusive economic growth;</p> <p>Labour Market Access – Improved access to labour markets and jobs, inequality of opportunity to access work is addressed;</p> <p>Fair Work - Fulfilling, secure and well-paid jobs, where employees' contributions are encouraged, respected and valued;</p>

Policy/Strategy Document	Status and Purpose of Document	Relevance for Proposed Project
		<p>People - Economic benefits and opportunities are spread more widely across Scotland's population, with lower poverty levels, and more equal income and wealth distribution; and Place - More economic opportunities across Scotland's cities, towns regions and rural areas ensure sustainable growth.</p> <p>The baseline assessment shows West Dunbartonshire performs poorly against several related indicators. The economic case demonstrates how the project will contribute to reducing key inclusive growth differentials, including the anticipated number of jobs that the intervention will support, along with the wider benefits that the project will deliver. It tackles economic performance and productivity by opening up currently derelict land to employment uses generating high value jobs which contribute to the above inclusive growth outcomes.</p>

Strategic fit with Regional Policy

- 2.4.7 Table 2-3 below provides a summary of how the Council’s project fits with the main regional policy and/or strategy documents.
- 2.4.8 Specifically, the infrastructure delivery will support preparation of plots targeting advanced manufacturing, storage and distribution investment, directly contributing to achieving the objectives of supporting economic recovery via new strategic freight hubs and investment locations across the City Region.

Table 2-3 Project fit with Regional Policies and Strategies

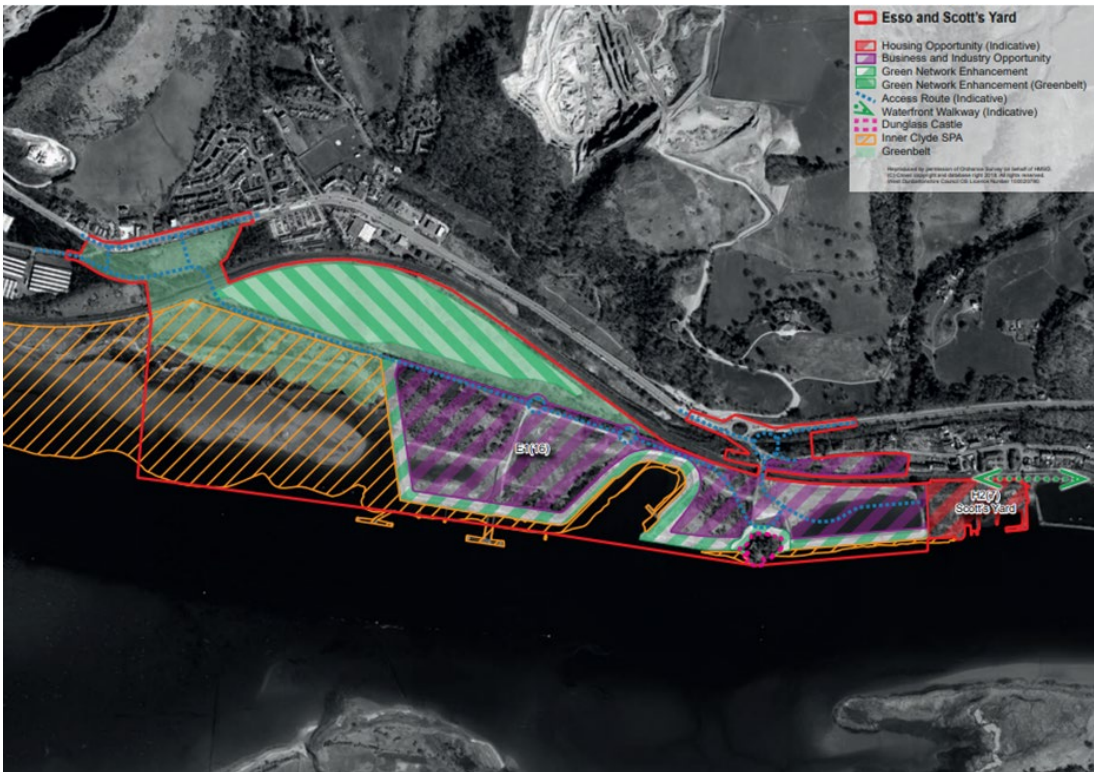
Policy/Strategy Document	Status and Purpose of Document	Relevance for Proposed Project
Glasgow's Regional Economic Strategy	Identifies three Grand Challenges: Creating an Inclusive Economy; Enhancing Productivity; and Addressing the Climate Emergency.	By addressing these challenges, the Glasgow City Region aims to have "the most innovative, inclusive and resilient economy in the UK" by 2030. There are several transformational opportunities that development of the Exxon site can help to reshape the economy for all. Specifically, the follow-on development can help to strengthen the areas Foundational Economy; support High Growth Sectors where there is commercial interest (e.g., maritime manufacturing), while establishing a greater sense of Place on a key site along the Clyde.
Clyde Mission	Clyde Mission’s purpose is to use the Clyde to drive sustainable and inclusive growth for the city, the region and Scotland.	The Exxon project will contribute directly towards the Clyde Mission objectives through site remediation (achieving sustainability) and delivering a wide array of employment opportunities for the City Region (achieving inclusive growth)

Strategic fit with Local Policy

West Dunbartonshire Local Development Plan: Proposed Plan (August 2020)

- 2.4.9 The Proposed Plan was modified in August 2020 to reflect the recommended modifications of the Examination Report. The Plan will not be adopted following a decision to that effect taken by the 15 March 2023 Planning Committee. However, it provides the most up to date spatial strategy for West Dunbartonshire and will remain a material consideration in decision making.
- 2.4.10 The Plan sets out the Council’s strategy, policies, and proposals for the use of land and buildings within the Council area (with the exception of that part of the authority within the Loch Lomond and the Trossachs National Park) for the period from 2020 to 2030. The Plan’s aim is to create places for people, spaces for investment and destinations to visit and enjoy.
- 2.4.11 The proposed LDP sets out a Spatial Strategy for West Dunbartonshire influenced by the area’s location within the Glasgow and Clyde Valley area, its geography and history. This Spatial Strategy is supported by Delivering Our Places: the key areas for regeneration and development within the area’s existing communities. The Exxon site at Bowling is identified as a key regeneration area and the proposed LDP sets out the policy framework for development proposals on the site as shown in Figure 2-9 below.

Figure 2-9 Extract from Proposed LDP Showing Development Proposals



- 2.4.12 The site is allocated as a business and industry opportunity. The Development Strategy for the site is:
- redevelopment of the Esso Bowling site primarily to increase the business and industrial opportunities within West Dunbartonshire;
 - to use the development of the sites to enhance the Green Network;
 - the provision of a link road which offers access to development and a secondary access for the A82; and
 - to protect the qualifying interests and qualities of the Special Protection Area and SSSI.
- 2.4.13 The site is identified as being of a scale that could offer significant investment and employment in West Dunbartonshire. The plan supports the following uses on the site:
- Class 4, 5 and 6 Business and Industrial;
 - Leisure;
 - Tourism;
 - Maritime related uses in relation to Dunglass Bay and other appropriate uses that require deep water channel access; and
 - Restoration of Dunglass Castle for leisure and tourism.
- 2.4.14 To the west and south of the site are mudflats and saltmarshes which are designated as a Site of Special Scientific Interest (SSSI), a Special Protection Area (SPA) and a Ramsar Site (wetlands of international importance) because of their ecological importance.
- 2.4.15 On the site, there are the B-listed Dunglass Castle and the Henry Bell Obelisk Memorial which could be restored and developed for leisure and tourism uses.
- 2.4.16 Table 2-4 below provides a summary of how the project fits with other local policy and/or strategy documents. Delivering the required infrastructure to enable the Exxon site to be developed will contribute directly towards the Council's Infrastructure Investment Plan, assisting the Council and the private sector to deliver sites to accommodate the area's economic growth. The infrastructure associated with the Exxon site de-risks investment by potential occupiers and private sector developers and improves site viability.

Table 2-4 Project fit with Local Policies and Strategies

Policy/Strategy Document	Status and Purpose of Document	Relevance for Proposed Project
<p>West Dunbartonshire Draft Economic Development Strategy 2020 - 2027</p>	<p>Published by West Dunbartonshire Council in 2022 Provides a vision for economic development to 2027.</p>	<p>Vision: 'By 2027, West Dunbartonshire will have an inclusive and vibrant economy through the creation of fairer jobs, a drive towards net Zero, and the development of prosperous places in partnership with our communities and businesses'</p> <p>The vision for West Dunbartonshire is focused on increasing prosperity and economic growth while ensuring that this growth is distributed as equitably as possible throughout the area.</p> <p>The new Strategy aims to achieve this vision through the following key strategic priorities:</p> <p>Stimulating economic investment and growing the business base. Establishing an inclusive economy by improving the skills of our people and supporting them into work. Creating a prosperous place where people choose to live, work, visit and invest. Addressing climate change and supporting a green recovery Building stronger partnerships and new approaches to delivery. The Strategy identifies several projects and initiatives to maximise West Dunbartonshire's competitiveness as an investment location. The Strategy specifically states the importance of ensuring sufficient 'resources are allocated to develop the Exxon City Deal project.'</p>
<p>West Dunbartonshire Strategic Plan 2022-2027</p>	<p>Published by West Dunbartonshire Council in 2022. Sets a vision for 2027 and priorities for achieving this.</p>	<p>The Council's Strategic Plan 2022 – 2027 contains the strategic priorities which provide the focus for the Council for the next five years. All the priorities are relevant to the project, however the two priorities most directly related are:</p> <p>Our Communities: Resilient and Thriving Our Economy: Strong and Flourishing The Strategic Plan also defines the Council Vision:</p>

Policy/Strategy Document	Status and Purpose of Document	Relevance for Proposed Project
		Delivering services which build on the strengths and resilience of our neighbourhoods and supporting all residents to fulfil their individual potential, and that of their communities.

Strategic fit with and contribution to the Glasgow City Region City Deal

- 2.4.17 The Glasgow City Region City Deal is an agreement between the UK Government, the Scottish Government and eight local authorities across the Glasgow City Region. It was signed on 20th August 2014. The local authorities have developed a set of proposals which are intended to deliver:
- an Infrastructure Fund of £1.13 billion to improve the transport network across the Glasgow City Region and develop and regenerate key sites;
 - growth in the life science sector;
 - support to enable small and medium enterprises to grow and develop;
 - programmes to tackle unemployment targeted at young and vulnerable residents;
 - new ways of increasing the income of people on low wages.
- 2.4.18 The programme comprises eighteen local authority projects and two strategic projects. The Council has one project identified as part of the Infrastructure Fund portfolio.
- 2.4.19 The project was selected by due to its ability to directly contribute to the economic objectives of the City Deal as shown in the table below. It will provide the road and supporting infrastructure improvements required to renew investor and developer confidence in the long-term sustainable development of a former, and long term unused, industrial site.

Table 2-5 City Region Deal Objectives and Exxon Site Contribution

City Deal Objectives	Exxon Contribution
Support an overall increase in the economy of around 29,000 jobs.	The anticipated follow-on investment into the Exxon site will help to support up to 970 net additional jobs across the City Region by 2037.
Work with 19,000 unemployed residents and support over 5,500 back into sustained work.	The Exxon site will support a range of employment opportunities, including 895 net additional short term construction jobs by 2037.
Lever in an estimated £3.3 billion of private sector investment.	It is anticipated that the Exxon site will stimulate up to £43.8m in private sector investment by 2037.
Deliver £2.2 billion in additional Gross Value Added (GVA) per annum (a 4% uplift) across the city region.	It is estimated that delivery of the Exxon site will stimulate up to £520m of GVA by 2047. £288m by 2037

- 2.4.20 The enabled development of the Exxon site will achieve the objectives of the Glasgow City Region Deal through:
- Unlocking additional employment land, providing expansion space for existing and inward investing high value enterprises in West Dunbartonshire and across the City Region.

- Creating the opportunity for a diversified employment base, helping to secure employment opportunities for local and regional residents.
- Improving the transport infrastructure of the area, reinforcing the strategic positioning of West Dunbartonshire as a gateway to the North West of Scotland from the rest of the City Region.

2.5 Project Objectives

KEY POINTS

- The project objectives are focussed on increasing economic activity in West Dunbartonshire and creating a major growth opportunity in a unique location to drive growth across the Glasgow City Region. The project will provide more local employment opportunities and facilitate sustainable economic development through local living and working.

- 2.5.1 The project seeks to address long-standing issues facing West Dunbartonshire's economy whilst developing the potential of its stronger marine manufacturing and related sectors, as well as strategically developing the opportunities for supply chain development through storage and distribution. City Deal funding will enable suitable site access, flood mitigation and associated infrastructure to be provided to enable development platforms to be created. A high-quality, large-scale site will then be available to provide significant and transformational support to the continuing efforts of the Council and its partners to meet the following objectives.

Objective 1: Increase the range of commercial and industrial activity in the area;

- *to increase the volume of higher value-added economic activity;*
- *to increase resilience to market fluctuations; and*
- *to ensure availability of high-quality business and industrial land to accommodate long term growth.*

- 2.5.2 This will be demonstrated through increased GVA, and the proportion of GVA generated in high growth sectors; a broader business base, with increased reliance on a broad base of private sector activity; and reductions in the scale of change in key GVA and employment indicators. Continued monitoring of the employment land supply will identify emerging availability constraints.

Key Baseline Data Against Which to Measure the Impact of the Project

GVA per capita: £ 17,499 (West Dunbartonshire – 2018)

Employment in Public Admin, Education and Health: 40.9% (2021)

Objective 2: Raise levels of economic activity, providing a platform for significant employment and job opportunities for those with differing levels of qualifications and skills.

- 2.5.3 While the project will increase economic activity rates across West Dunbartonshire and the wider Glasgow City Region, its effects can be particularly pronounced in disadvantaged areas. Levels of economic activity, employment and unemployment will be monitored to demonstrate progress. The project will affect the occupational profile of West Dunbartonshire employees, with a higher proportion involved in skilled and professional activity.

Key Baseline Data Against Which to Measure the Impact of the Project

Employment in Professional Occupations: West Dunbartonshire Residents – 19.6% (2022)

Employment Rate: 77% economically active (2022)

Average Earnings: West Dunbartonshire £616 gross weekly pay (2022)

Objective 3: Create additional and sustainable employment opportunities for West Dunbartonshire communities, increasing the proportion of people who live and work in the area.

- 2.5.4 Investment in infrastructure and subsequent commercial and industrial development of scale is intended to increase West Dunbartonshire's attraction as a place to live. It is anticipated that net employment increases will also be reflected in first stabilisation and then increasing population levels. Net out-commuting will reduce. The size of the working age population (particularly young families), volume and type of houses, and travel to work patterns will be monitored to establish project progress.
- 2.5.5 Economic activity will follow infrastructure and site enabling works and subsequent development, with substantial progress anticipated in years 12-25 of the Programme. Before this, a Community Benefits strategy would engage local people, providing opportunities for West Dunbartonshire residents combining employability and construction training, trades certification, apprenticeships, and work experience throughout the construction programme. This will be evidenced through the number of contractors engaging with the programme; increased construction employment locally; increased employment and reduced unemployment in areas targeted by the programme ensuring Community Benefit addressed through procurement of works packages.

Key Baseline Data Against Which to Measure the Impact of the Project

Travel to Work: West Dunbartonshire net daily outflow of over 7,000 commuters – 10,500 in-commuters and 17,700 out-commuters

Travel to Work: 46.9% of West Dunbartonshire residents work in the area, with the rest sourcing employment outside the area.

- 2.5.6 Table 2-6 provides the project's objectives in detail. For this FBC, there has been emphasis on developing objectives that are SMART: Specific, Measurable, Attainable, Relevant and Time-bound.

Table 2-6 Specific, Measurable, Attainable, Relevant and Time-bound (SMART) Objectives

Objective	SMART Objectives				
	Specific	Measurable	Attainable	Relevant	Time-bounded
Diversify the range and value of commercial and industrial activity in the area.	Objective seeks to: increase the volume and value of economic activity in West Dunbartonshire, particularly in manufacturing, storage and distribution and related sectors - £523m additional GVA by 2047.	Measurable by assessing productivity (GVA per head) in key sectors; new business formation rates; private sector high value, high skilled jobs; commercial and industrial floorspace levels and occupancy rates.	Enabling the site for employment uses will provide the necessary large-scale employment site to allow West Dunbartonshire to build on its strengths, develop local supply chains and build resilience to market fluctuations.	Private sector investment and employment is required to help rebalance a local economy that relies on a disproportionately high level of public sector jobs.	44,550m2 of mixed commercial space to be developed by 2035.
Raise levels of economic activity, providing a platform for significant employment and job opportunities for those with differing levels of qualifications and skills.	The Exxon site will provide for a mix of use classes and thus a diverse range of jobs, supporting the local economy. 970 additional jobs by 2037.	Measurable by monitoring the levels of economic activity; unemployment; Job Seekers Allowance Claimant Rates and employment structure.	The infrastructure delivered by the project will enable a major employment site. The employment generated will positively influence economic activity; employment levels and provide high skilled manufacturing jobs	West Dunbartonshire is characterised by low employment density; pockets of severe deprivation and a reliance on public sector jobs. The Exxon project can help support valuable jobs in the local area.	44,550m2 of mixed commercial space to be developed by 2035, providing valuable job opportunities for the local area.
Build sustainable West Dunbartonshire communities, increasing the proportion of people who live and work in the area.	High value skilled employment opportunities will help retain young people and encourage the return of skilled educated former residents and in-migrants. Prevent working age population falling below 85% of 2015 levels.	Measurable by assessing the number and proportion of working age residents who live and work in West Dunbartonshire and reducing residents travel to work patterns.	Employment opportunities will provide jobs for skilled labour in a sustainable major employment site.	West Dunbartonshire is characterised by high levels of out-migration and projected population decline.	Preventing the decline of the working age population, below 85% by 2030 (based on 2015 levels).

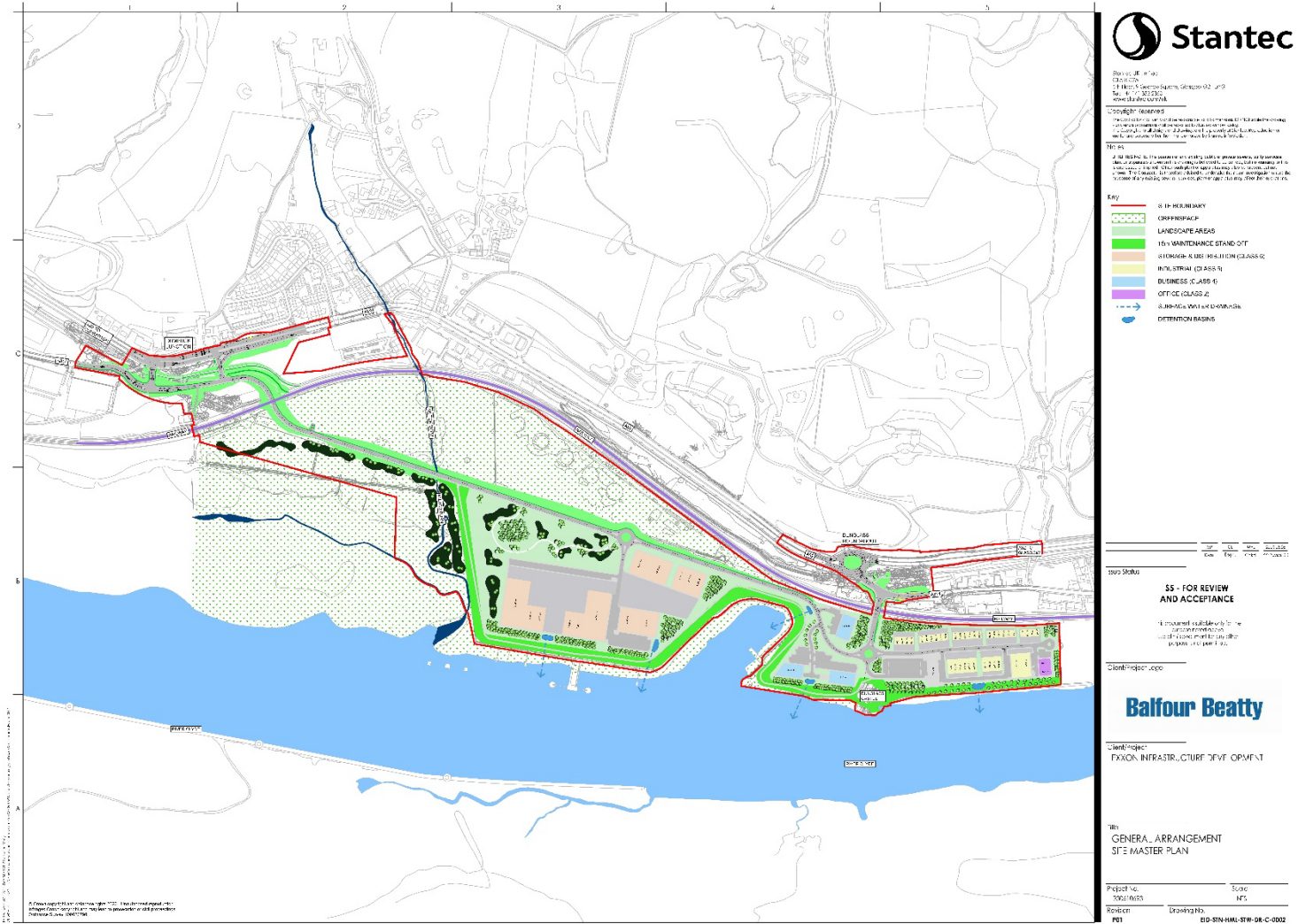
2.6 Project Summary

- 2.6.1 Within the timeframe being considered, there are no equivalent opportunity sites in West Dunbartonshire for development of industrial / distribution / commercial space at the scale required. Other major Council regeneration initiatives have a major residential component. The Exxon site is uniquely non-residential.
- 2.6.2 One of the fundamental infrastructure requirements is the construction of road network accesses at the eastern and western extents of the site linked by a spine road through the site which will enable it to be opened up for development. This new asset is also expected to support wider business confidence through providing a relief road that mitigates the effects of incidents on that section of the road.
- 2.6.3 The project will deliver economic benefits to West Dunbartonshire by creating the conditions that will unlock the potential of the site for development.
- 2.6.4 To realise the delivery of the infrastructure a series of tasks must be undertaken to obtain the necessary consents for infrastructure and put in place a plan for implementation that minimises risks and ensures all key stakeholders are kept engaged and in agreement with the proposals at all stages of the project.

Project Deliverables

- 2.6.5 The site requires substantial investment in site preparation prior to development taking place including decontamination works (now completed), creation of new roads infrastructure, flood, environmental and drainage mitigation (City Deal investment).
- 2.6.6 City Deal money will be spent on:
- 1.95km of new spine road with associated drainage and lighting infrastructure;
 - 1.32km of upgraded existing public road (A814);
 - a new junction on the A82 at Dumbuck with closure of the existing junction;
 - a remodelled junction on the A82 at Dunglass;
 - an enhanced routing of 475m of the National Cycle Network Route 7 in the vicinity of the site;
 - a new underpass of the Glasgow – Dumbarton Railway at the western access to the site;
 - a remodelled railway overbridge at the eastern access to the site;
 - flood mitigation works;
 - environmental mitigation works (but not remediation);
 - site drainage works; and
 - establishment of platforms for development across the site.
- 2.6.7 The site boundary, including the areas where accesses will be formed, is shown in Figure 2-10.

Figure 2-10 Site Boundary



- 2.6.8 The wider site area (including mudflats and river) extends to 61.71 hectares of which the land element comprises 39.45 hectares. The total developable area within the site, including for all roads and development plots, extends to 19.10 hectares. This area excludes land currently designated as greenbelt at the western extent of the site (7.82 hectares) and it excludes land with the greatest level of flood risk and unsuitable ground conditions (11.35 hectares).
- 2.6.9 The site requires substantial investment in site preparation prior to development taking place. One of the fundamental infrastructure requirements is the construction of road network accesses at the eastern and western extents of the site linked by a spine road through the site which will enable it to be accessed for development.
- 2.6.10 Currently the development potential of the site is constrained by a sub-standard (private) access at its eastern extent and no access at its western extent. Work has been undertaken to identify the optimum solutions for access and details are provided in Chapter 3.

Masterplan

- 2.6.11 To take full account of the various access, ecological, environmental, landscape, topographical, physical and flood risk constraints affecting the site, a Masterplan has been approved which will direct future development of the site and help maximise the land available for development.
- 2.6.12 Planning Permission in Principle (PPiP) DC 20/088 was granted in January 2021 for the development of up to 44, 450m² of commercial industrial floorspace, link road with upgraded junctions on the A82 and A814, a railway underbridge and an overbridge, landscaping, green network and public realm improvements, flood defences, drainage, transport and utilities infrastructure including the formation of platforms for development across the site. The permission included the approval of a masterplan. An Application for Matters Specified in Conditions (AMSC) will be submitted in June 2023. Details are provided below.
- 2.6.13 Figure 2-11 shows the approved Masterplan.

Figure 2-11 Approved Masterplan



Detailed Design

2.6.14 The principles of the Masterplan development have been advanced through development of the detailed design for the City Deal infrastructure project. The infrastructure design package is intended to enable access to 'development platforms' for end users in the form of individual plots of land available for development by investors or end users.

2.6.15 The infrastructure that forms the design package includes:

- Roads and associated transport infrastructure. A detailed design based upon the approved PPiP Masterplan.
- Bridges. There is the need for a new underpass under the live railway at the west of the site and a remodelled overbridge (current access) at the east of the site upgraded to adoptable standards.
- Development platforms for end users. Ensuring that investment in development of the site can be accelerated.
- Flood risk mitigation measures. Development of flood risk mitigation measures (raised development platforms) on the site to protect the development.
- SuDS compliant drainage. A drainage strategy has been developed for the entire site rather than for the individual plots. This allows for the amalgamation of SuDS features such as drainage ponds etc and improves the overall efficiency of the drainage works.
- Public utilities. These will be located within the proposed roads infrastructure.

Detailed Planning Application for Roads and Infrastructure

2.6.16 The PPiP included seven conditions which are to be submitted as part the Approval of Matters Specified in Condition (AMSC) applications. For the first AMSC application it is proposed that information relating to the following be submitted:

- Condition 1 (a & d) – Detailed Design Plans and Drawings

(a) Development platforms and site layout plans showing the position of all, roads, access arrangements, footpaths, green corridors open space, boundary treatments and drainage infrastructure

(d) Location and species of trees, shrubs, hedges palette of hard landscaping materials and street furniture

- Condition 2 - Design & Construction Management Plan and Operational Phase Management Plan
- Condition 12 - Supporting Report to demonstrate accordance with approved Landscape Framework and Strategy (Condition 11)
- Condition 24 – Bus stop provision
- Condition 30 - Species Survey/Species Protection Plan

2.6.17 **Phase 1:** consists of the 'City Deal Works', which comprises the following:

- Eastern Junction improvement (October 2023 to December 2026);

- Western Junction improvement (October 2023 to December 2026);
- Overbridge East (October 2023 to December 2026);
- New Spine Road (October 2023 to December 2026);
- Underbridge West (March 2024 to December 2026).
- Landscape earth works associated with the new roads.

2.6.18 The wider landscaping is part of a later phase and is linked to the Low Carbon Vacant and Derelict Land Investment Programme together with the waterfront path along the River Clyde.

2.6.19 **Phase 2:** This is the creation of three development platforms (East, Central and West) and will be developed in a single works package.

2.6.20 **Phase 3:** Landscaping and Utilities and Energy Infrastructure Facilities will follow the infrastructure works.

2.6.21 **Phase 4:** On-site buildings, Dunglass Castle & Henry Bell Obelisk works will then conclude the site development.

2.6.22 The AMSC application relates to Phases 1 and 2 works only.

Follow on Investment

2.6.23 The Exxon site Masterplan indicates the anticipated follow-on development after infrastructure investment. This development/investment is expected to come from the private sector, attracted by the improved access and reduced risk because of the intervention made by the public sector to mitigate market failure. These indirect deliverables are anticipated to include the following uses:

- Class 6 storage and distribution space - 25,000m²
- Class 5 industrial space – 9,900m²
- Class 4 business space – 7,860m²
- Class 2 office space – 1,752m²

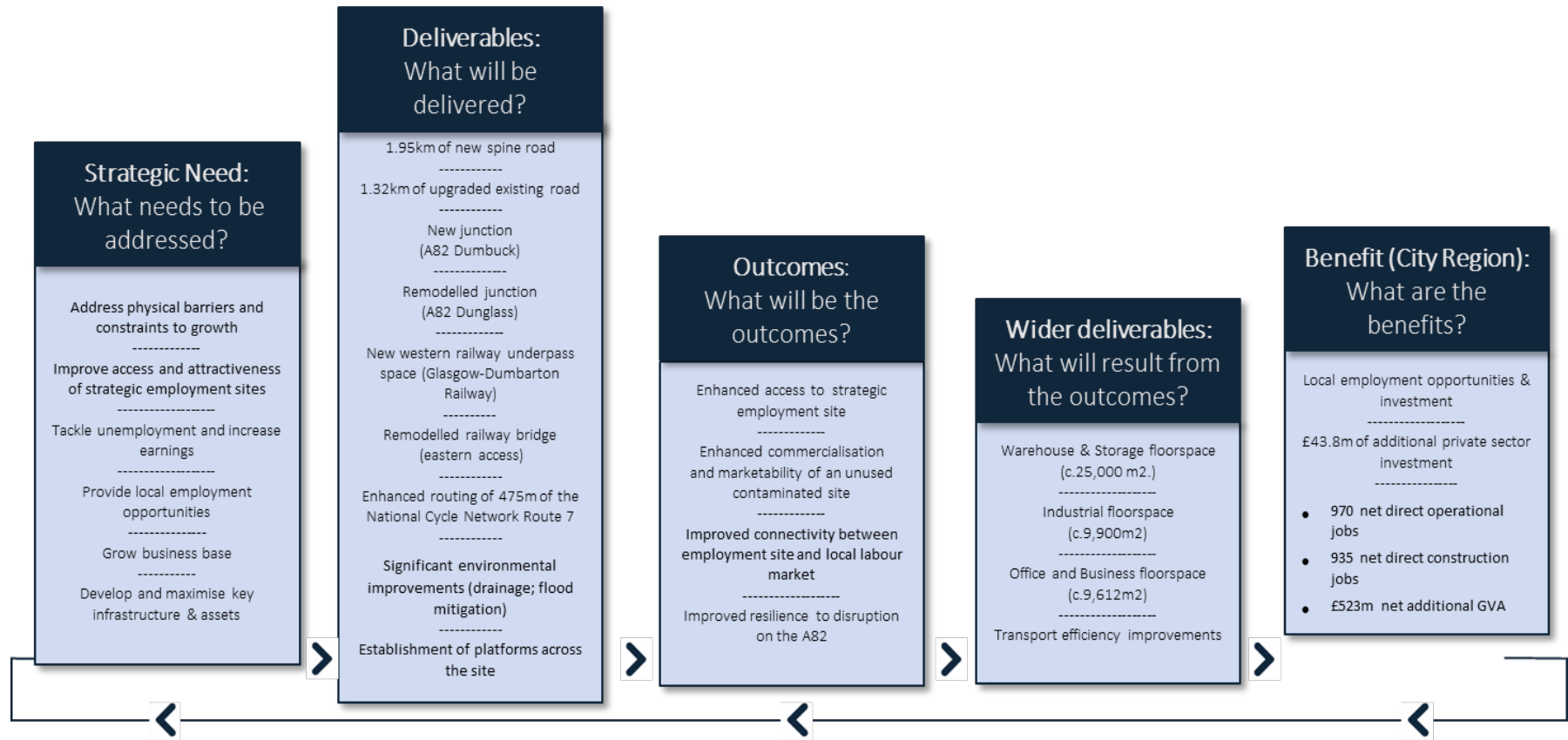
2.6.24 It is anticipated that private sector investment will be able to commence from 2026, estimating to deliver up to £43.8m of additional investment by 2037. This is driven by the strategic context set out above i.e. the need for employment land in West Dunbartonshire. Additionally, this is supported through ongoing discussions between the Council and potential site occupiers. The potential for securing pre-let development through these conversations, gives confidence to future site developers and can help to accelerate the build out of the site.

Delivering against Areas of Need

2.6.25 Section 2.2 identified the strategic need for the project and highlighted that there was a requirement to bring forward more land in West Dunbartonshire in the medium to longer term to meet the economic development needs of the area. It also described the competitive advantage that the site offers in comparison to other locations both within West Dunbartonshire and more widely, particularly in relation to its strategic location on the transport network and access to the Glasgow City Region labour market. The site also offers strategic advantages through its deep-water frontage and its position as both a gateway to Loch Lomond and the Glasgow conurbation.

- 2.6.26 The project will deliver against these needs by creating the conditions that will unlock the potential of the site for development. Primarily this entails the provision of the necessary infrastructure to enable development to take place.
- 2.6.27 The Logic Model in Figure 2-12 demonstrates the linkages between the City Deal Project's direct deliverables and the strategic need for the Project.

Figure 2-12 Relationship between Project's direct Deliverables and Strategic Need



The Project deliverables will provide outcomes and enable wider deliverables with benefits that address the strategic need

Evidence of Delivering Successful Projects

2.6.28 The Council has the skills, resources, capacity, and established capability to deliver the project. Over the last 5 to 10 years, the Council has designed and delivered projects similar in scope, scale, and complexity. This demonstrates experience and competency in the design and delivery of infrastructure and road building schemes and engaging with key stakeholders during the project lifecycle. The Council has extensive experience of working with external consulting engineers and designers to facilitate the delivery of large-scale infrastructure and public realm schemes. Appendix B provides a schedule of recently delivered Council infrastructure projects.

Critical Success Factors

2.6.29 Critical Success Factors (CSFs) are a small number of criteria used at the long-list stage to make strategic choices about options. They support an assessment of how well an option is likely to succeed across the 5 dimensions of a business case and deliver SMART objectives.

2.6.30 The critical success factors are used to assess the Exxon project's ability to deliver against its objectives; the ability to deliver value for money (i.e. a BCR of 1), ability to secure funding (affordability) and deliverability of the project.

2.6.31 The following are considered crucial to the success of the project:

- **Strategic fit:** The project is required to deliver on the Project Objectives, and align with national, regional and local policy objectives. The Exxon project is focussed on increasing the constrained supply of employment land in West Dunbartonshire, contributing to the economic prosperity of the wider City Region.
- **Delivering Value for Money:** The relative costs have been considered against their ability to deliver value for public money. This analysis is aligned with the expenditure versus the ability to hit each of the Exxon Project objectives.
- **Affordability:** To advance the project through the necessary design and construction phases, funding must be secured. The Exxon project is dependent on 86% of project costs being funded through the Glasgow City Region Deal Infrastructure Fund.
- **Deliverability:** This FBC presents project governance structures which align with business case guidance. The Exxon project governance structure has been tailored to meet the specific demands of the proposed scheme and demonstrates that the Council has appropriate mechanisms in place to ensure that the project can be delivered.

2.6.32 Investment to address access and development constraints present at the Exxon site will remove market failures constraining the area's economic potential, enabling West Dunbartonshire to attract and retain new and existing businesses through establishment of a high quality, resilient employment land supply for the next 15 years. The success of the development will be measured against completion of the planned outputs within expected development timeframes.

2.7 Dependencies and Constraints

KEY POINTS

- A large proportion of the potential dependencies and constraints are linked to environmental issues on the site and can be mitigated through appropriate management and application of suitable interventions as the project is taken forward to implementation.

- The project is highly dependent on market demand following the infrastructure interventions and the ability for the Exxon site to attract a wide range of businesses and raise economic activity.
- The project is dependent on and constrained by the budget required to develop the site.
- Additional dependencies and constraints relate to ecological issues, heritage, flooding, contamination and remediation, land ownership, transport network impacts and agreement to proposals with key stakeholders.

2.7.1 Throughout the development of the project a series of potential dependencies and constraints have been identified. Most are linked to environmental issues on the site and can be mitigated through appropriate management and application of suitable interventions as the project is taken forward to implementation.

Environmental Impact Assessment

2.7.2 An Environmental Impact Assessment (EIA) was approved with the PPIp application. A summary of the EIA can be found in Appendix H

Summary of Dependencies and Constraints

2.7.3 The table below summarises the internal and external dependencies and constraints that will influence the successful delivery of the project.

Table 2-7 Dependencies and Constraints

Dependencies/ Constraints	Lead responsibility
Internal Factors⁷	
Environmental – preparation and agreement of Flood Risk, Ecology, Landscape Mitigation Management Plans. Programming and implementation of agreed species and habitat mitigation measures (pre and post road construction) to protect and mitigate impacts. Nature Scot license and monitoring requirements. Specialist ecological requirements pre, during and post construction.	the Council City Deal Programme Team
Programming – alignment of access road development and construction programme, particularly Network Rail requirements, with the wider development requirements.	The Council City Deal Programme Team / Network Rail.
Utilities - programming of service connection requirements.	the Council City Deal Programme Team / Utility Companies
Financing – site and tender costs must not exceed budget	The Council City Deal Programme Team.
External Factors⁸	

⁷ Internal factors relate to dependencies that arise when a change in another project or variable has a direct consequence on this project (e.g. availability of resources or sequencing of other projects)

⁸ External factors include successful procurement of a contractor or private ownership of assets within the project footprint.

Dependencies/ Constraints	Lead responsibility
Land ownership and acquisition – In addition to concluding the Exxon land transfer once remediation is completed, there are 8 affected landowners including some known to be unwilling to make their land available if required. Acquisition terms to be agreed, purchases authorised and concluded.	The Council City Deal Programme Team.
Market Demand – Investment in enabling infrastructure aims to access the site and provide market-ready plots, de-risking the site and improving its development viability. This relies on a commercial and industrial property market willing to deliver the follow-on private sector investment needed.	The Council City Deal Programme Team.
Stakeholder lead in time (particularly Network Rail) may not be compatible with construction phase.	The Council City Deal Programme Team.
Site Remediation – Exxon is required to remediate the site before the Council formally acquires it. This is dependent on planning approval of the proposed remediation.	SEPA/the Council and Exxon
Note: Expected completion December 2023.	

2.7.4 In summary, there are several dependencies on which the success of the project is reliant. Each of these has either been identified in the risk register and/or been considered in development of the consented Masterplan. Design work has fully considered these constraints and addressed them within the project budget.

2.8 Stakeholders

2.8.1 The delivery of the project is dependent upon several key stakeholders agreeing to the proposals being taken forward. This has been achieved with Network Rail agreeing the construction of a new underpass (west) and upgraded overbridge (east) road access to the site.

2.8.2 Transport Scotland has agreed amended junctions on the existing A82 Trunk Road.

2.8.3 Finally, grant of detailed planning permission must be achieved, including agreement and sign off with a range of other stakeholders during the planning and design process.

Project Consultation

2.8.4 Throughout the project development to date, stakeholder engagement has been a key consideration as it is recognised that the cooperation and buy-in of a series of key stakeholders will be essential to the successful delivery of the project. An ongoing programme of stakeholder engagement is planned throughout the detailed design and implementation of the project to ensure stakeholders remain informed and committed to assisting in its delivery.

2.8.5 To date, all stakeholders, as noted below, have approved or commented on the Planning Permission in Principle and will be consulted on the detailed infrastructure planning application. Pre-application engagement has confirmed that all parties support the proposals.

- Transport Scotland (TS): TS commended the approach taken thus far and has agreed to the proposals.
- Network Rail (NR): Agreed to the proposals and has appointed a contractor led team to deliver the western underpass.

- Scottish Environmental Protection Agency (SEPA): SEPA has approved a hydraulic modelling approach for the site, a watercourse survey programme and the proposed approach to Flood Risk Assessment incorporated in the EIA. SEPA has approved the Baseline Hydraulic Modelling Report and the proposals for flood risk mitigation.
- Nature Scot: has approved the proposals.
- Royal Society for Protection of Birds (RSPB): has approved the proposals.
- West of Scotland Archaeological Service: has approved the proposals.
- Historic Scotland: has approved the proposals.
- Scottish Water: has approved the proposals.
- Health & Safety Executive: consulted and commented on the EIA – no concerns.
- Inverclyde Council: has approved the proposals.
- Glasgow and Clyde Valley Green Network: has approved the proposals.

2.8.6 A record of the stakeholder engagement to date is provided in the table below.

2.8.7 In addition, consultations with adjacent landowners begun in November 2016 and have continued as the design proposals for the project have been developed throughout design and planning stages.

Table 2-8 Stakeholder Engagement Summary

Stakeholder Group	Contribution	Benefit	Dis-benefit	Expectation/ Demand	Engagement to date
Local Authorities					
West Dunbartonshire Council	Project Sponsor	Remediate site and increased employment land supply.	Bearing the risk of delivering the project using public sector money.	West Dunbartonshire Council	Project Sponsor
Inverclyde Council	Consultee in respect of the Inner Clyde Estuary SPA	Remediated site on the banks of the Clyde		EIA and Planning Application Consultee	Consulted on EIA Scoping
City Deal Bodies					
The Cabinet	Project Coordination	Benefits of increased employment opportunities across the City Region, leading the economic development of central Scotland.		Interaction as required	Regularly informed of progress through ongoing meetings and reports
The Chief Executive's Group	Project Coordination			Interaction as required	Regularly informed of progress through ongoing meetings and reports
Project Management Office (PMO)	Project Coordination			Interaction as required	Regularly informed of progress through ongoing meetings and reports
Financial Strategy Support Group	Project Coordination			Interaction as required	WDC officer support
Legal Support Group	Project Coordination			Interaction as required	WDC officer support
Procurement Support Group	Project Coordination			Interaction as required	WDC officer support
Lead Officers Support Group	Project Coordination			Interaction as required	WDC officer support

Stakeholder Group	Contribution	Benefit	Dis-benefit	Expectation/ Demand	Engagement to date
Transport Support Group	Project Coordination			Interaction as required	WDC officer support
Economic Development Support Group	Project Coordination			Interaction as required	WDC officer support
Audit Support Group	Project Coordination			Interaction as required	WDC officer support
Other Public-Sector Bodies					
Scottish Environmental Protection Agency	Flooding risk	Remediated site, improving the environmental quality of the river and riverside.	Temporary impact from construction works.	Agreement and approval of approach to hydraulic modelling, flood risk assessment and the EIA	EIA consultation meetings and exchanges of documentation to gain approvals to approach
Nature Scot	Wildlife protection	Removal of harmful chemicals from the site. Green space incorporated into the development.	Potential disruption of local wildlife.	Agreement and approval of approach to ecological studies and the EIA	EIA consultation meetings and exchanges of documentation to gain approvals to approach
RSPB	Wildlife protection			Agreement and approval of approach to ecological studies and the EIA	EIA consultation meetings and exchanges of documentation to gain approvals to approach
Historic Scotland	Listed buildings and ancient monuments protection		Disruption of the landscape adjacent to Dunglass Castle.	Agreement and approval of approach to archaeological studies and the EIA	EIA consultation meetings
West of Scotland Archaeological Service	Listed buildings and ancient monuments protection	Potential to unearth archaeological assets during construction.		Agreement of approach to archaeological studies and the EIA	EIA consultation meetings
Health & Safety Executive	Existing HSE Notification Zone			Agreement of approach to the EIA	EIA consultation meetings

Stakeholder Group	Contribution	Benefit	Dis-benefit	Expectation/ Demand	Engagement to date
Glasgow and Clyde Valley Green Network	Access and sustainable transport			Agreement of approach to the EIA	EIA consultation meetings
Scottish Enterprise	Commercial marketing opportunities and business development support	Additional commercial space for businesses to expand in or move to.		Supporting infrastructure and new commercial space for growing Scottish businesses.	Ongoing engagement through Economic Development team, regarding the available opportunity.
Scottish Development International	Commercial marketing opportunities	Additional commercial space to support inward investing companies.		Supporting infrastructure and new commercial space for inward investing companies.	Ongoing engagement through Economic Development team regarding potential inward investments
Scottish Council for Development and Industry	Commercial market opportunities and industry engagement support.	Additional commercial space to support Scotland's economic growth.		Supporting infrastructure and new commercial space that can help to support Scotland's economy.	Ongoing engagement through Economic Development team regarding potential industry opportunities.
Transport Bodies					
Transport Scotland	Access to site and impacts on Trunk Road network	Additional road network to support the A82		Sign off on proposed approach to provide access to the site. Agree Basis of Design	Several consultation meetings and exchanges of documentation to gain approvals to approach
Network Rail	Access to site by crossing current live railway line		Additional infrastructure works and staff time to support the development	Sign off on proposed approach to provide access to the site	Several consultation meetings and exchanges of documentation to gain approvals to approach
Community Groups, Users and Others					

Stakeholder Group	Contribution	Benefit	Dis-benefit	Expectation/ Demand	Engagement to date
Investors/ Developers	Investment into and development of commercial space	Easily accessible, platformed site ready for construction.		Shovel ready site to begin development	Strategy being developed but will include Colleges, Chamber of Commerce, Scottish Enterprise, Skills Development Scotland and local community organisations, etc.
Occupiers	Commercial activity & employment opportunities	Easily accessible, platformed site ready for construction.		Prime commercial space with access to a quality labour force.	WDC Economic Development meetings with potential anchor tenants.
Exxon	Previous site owner	Purchase of a derelict site and underutilised asset by the Council.	Upfront remediation costs.	Lead remediation of site and engage proactively on proposals for its future development	Ongoing and regular liaison between WDC and Exxon has taken place during the development of the project
Public Utilities Companies	Public services for site occupiers	Additional service requirements from site occupiers.	Relocation and extension of the current network.	Identify location of existing public utilities in vicinity and provide necessary extensions to service the occupiers of the site	Utility companies have all provided copies of existing asset records.
Third Party Land Owners	Land owner	Purchase of land presently underutilised.	Disturbance from the construction works.	Land required for site access	Introductory contact made in November 2016 and ongoing.

2.8.8 Stakeholder conflicts will be managed appropriately as they arise, however, early stakeholder conversations have allowed stakeholder expectations and requirements to be effectively managed and resolved. Potential conflicts, their respective risk register code and how these will be managed are set out below:

Reaching an agreement on technical approaches with various stakeholders. (014)

- *In order to progress the development of the site servicing infrastructure, agreements will need to be reached with a variety of statutory bodies, including SEPA, Transport Scotland and Utility companies. Delays to decisions or agreements could extend the anticipated construction of infrastructure. Early engagement with these stakeholders has allowed the Capital Investment Team at West Dunbartonshire, to get ahead of any potential conflicts and resolve them through open dialogue.*

Regulatory approval for the overbridge or the underpass; provision of an underpass design; and possessions for construction of the underpass are delayed by Network Rail (048)

- *Network Rail has been commissioned to design and construct the underpass. The infrastructure works need to be incorporated into Network Rail's construction schedule and passenger timetables. Delays to either the design or scheduling of this works would cause a delay in site access and thus construction of the additional site infrastructure, resulting in conflicts with other site contracts. The Council are working closely with Network Rail to ensure that there is no delay to cross-rail works and any problems are managed through the Councils project team.*

Different contractors require to be on site at the same time to ensure the programme is maintained (026)

- *The Council has commenced early engagement with all potential parties to coordinate respective work programmes for construction and remediation staging. The project team will ensure contracts reflect the needs of Exxon/the Council working on the site at the same time where necessary.*

2.9 Risk

2.9.1 A series of potential risks that could affect the successful implementation of the project has been identified and set out in detail in the Risk Register attached as Appendix D . These risks can mainly be classified as relating to the following categories:

- Physical / assets
- Political
- Professional
- Financial
- Regulatory / legal
- Environmental
- Contractual

2.9.2 The risks identified in the register have appropriate mitigating actions against each of them.

2.9.3 Infrastructure delivery is dependent on several factors relating to the identified dependencies and constraints. After mitigation measures and control actions have been considered, the top risks to successful implementation of the project are:

- Regulatory approval for the bridge and the underpass by Network Rail (048) (External);
- Statutory approvals for development cannot be gained, additional requirements or are delayed (014) (Internal/External);
- Programme slippage incurs additional project costs (021) (Internal);

- Different contractors require to be on site at the same time to ensure the programme is maintained (026) (Internal/External).
- Risk of not getting the additional City Deal funding and the need for the Council to increase borrowing to cover site costs. (008) (Internal)

2.9.4 Assuming these risks are mitigated, infrastructure interventions are anticipated to be delivered by 2024.

2.9.5 Following successful delivery of the infrastructure, market demand remains a risk to the project's success (E2). Delivery of fully market ready sites and early and continuous commercial marketing of opportunities are vital to ensuring this risk is mitigated. This will include liaison with key bodies such as Scottish Development International and Scottish Enterprise.

Risk to City Deal Programme

2.9.6 If the Exxon project is not delivered, or there is a slip to the programme of delivery, then there will be a reduction in the anticipated economic value generated by the investment programme (003). The Council has identified the risks to project delivery in the risk register and under the project dependencies and constraints. The Council will work closely with the PMO to ensure that expectations are managed in line with realistic project deliverables – further detail can be found in the Management Case.

2.10 Risk Allocation and Transfer

2.10.1 The Council has taken ownership of the majority of the identified risks as defined in the Risk Register. However, in some instances the ownership of risks is also shared with key stakeholders.

2.10.2 The Project Manager will take responsibility for overall risk management and mitigation throughout the project delivery process. However, some risks are affected by external influences and where this is the case the Council only has partial control over them.

2.10.3 The table below provides an outline of the currently identified risk categories and ownership.

Table 2-9 Risk Transfer

Risk Identified	Risk Transfer	
	Kept within Member Authority	Transfer to External Party
Design and build	Road & Infrastructure, Flood risk management (Craig Jardine); the Council – Legal (Alan Douglas)	
Commissioning	Legal (Alan Douglas)	
Operation	Project Management (Patricia Rowley)	
Demand	Economic Impact (Gillian McNamara)	
Residual value	Economic Impact (Gillian McNamara)	
Technology	Project Management (Patricia Rowley)	
Regulation	Legal (Alan Douglas)	
Contractor default	Legal (Alan Douglas)	
Political	Project Management (Patricia Rowley)	
Internal business	Project Management (Patricia Rowley)	
Delay to remediation of contaminated land		Exxon
Delay to programme due to number of Governance levels - Board, Council, PMO, City Deal Cabinet	Project Management (Patricia Rowley)	
Agreement on technical approach with key stakeholders (e.g. Transport Scotland, Network Rail, public utilities, SEPA, etc.) creates timescale delays	Project Management (Patricia Rowley)	Stakeholders
Detailed design / site investigations reveal conditions that will significantly increase costs or affect project delivery	Site Evaluation & Asset Management (Craig Jardine) Project Management (Patricia Rowley)	
Alternative sites are deemed more attractive for development reducing the attractiveness of former Exxon site	Economic Impact (Gillian McNamara)	
Site fails to deliver the desired levels of economic activity and GVA forecast	Economic Impact (Gillian McNamara)	
City Deal does not achieve target GVA levels throughout Glasgow City Region with associated financial impact		City Deal Cabinet
Insufficient funding due to complexity of site	Project Management (Patricia Rowley)	
Necessary statutory approvals for development cannot be gained or are delayed	Legal (Alan Douglas) Planning (Pamela Clifford)	
Excessive liabilities associated with contaminated land	Legal (Alan Douglas)	
Delay to or unacceptable terms for transfer of ownership	Legal (Alan Douglas)	

Risk Identified	Risk Transfer	
	Kept within Member Authority	Transfer to External Party
of site from Exxon to West Dunbartonshire Council		
Third party parcels of land required for development cannot be acquired on acceptable terms	Legal (Alan Douglas) Asset Management (Michelle Lynn)	

2.10.4 The Risk Register will be kept under continuous review during the project development, detailed design and implementation. During this period, some risks may be dealt with and closed off from the Risk Register, new risks may be identified, or ownership of risks may be reallocated. The Risk Register will consequently be a live document and risk ownership could consequently change. However, it is anticipated that risks would remain allocated within a small group of bodies which would include:

- West Dunbartonshire Council
- Landowners
- Infrastructure providers – Transport Scotland, Network Rail, Utilities companies
- Environmental Agencies – SEPA, Historic Scotland, NatureScot

3 Economic Case - Options Appraisal

3.1 Introduction

3.1.1 Achieving additional and transformational change in West Dunbartonshire's economy requires:

- identification of large-scale sites which provide an opportunity for their comprehensive development and scope for expansion;
- identification of the key sectors required to achieve it and their likely needs; and
- establishment of the infrastructure requirements associated with different options.

3.1.2 An assessment based on the objectives identified in Section 2.5 of the OBC considered the best way to provide the required step change in the volume and value of economic activity in West Dunbartonshire. This analysis holds true today. It considered possible locations for the size of investment required and consideration of those sectors which will best contribute to the objectives, particularly those presently performing well or other growth sectors.

3.1.3 The strategic, long listing assessment consisted of three parts:

- options for the location of a sizeable economic investment site (see Section 3.2 in the OBC and summary outcomes below);
- options for the use of the site (economic activity) (see Section 3.3 in the OBC and summary outcomes below); and
- options for access to the site (infrastructure requirements) (see Section 3.4 in the OBC and summary outcomes below).

3.1.4 A long list of options was drawn up for analysis, considering each option available to the Council. These options were then quantitatively and qualitatively assessed in line with HM Treasury Green Book Guidance, analysing each option against their ability to meet the Critical Success Factors (CSFs) outlined in the Strategic Case.

3.1.5 The sifted options i.e., the short list was then subjected to more detailed economic analysis.

3.2 Summary Outcomes for the Location of a Sizeable Economic Investment Site

3.2.1 The Exxon site is in single ownership albeit that other land is required for access. The 61-hectare site is subject to a range of environmental designations as well as flood risk and other constraints. These reduce the developable area, including for all roads and development plots, to some 19.10 hectares which would be the largest concentration of potential employment land in West Dunbartonshire. Should the constraints be addressed, a high-quality, well-located development site would be available in the short to medium term. The site is of the scale required to meet project objectives, with the potential to offer a broad range of development and employment opportunities in the medium to long term. City Deal funding offers the opportunity to address the site constraints in a comprehensive manner, while also enabling future requirements for industrial and business land to be addressed.

3.2.2 From the high-level options appraisal, the Exxon site is best placed to meet the project objectives.

3.3 Summary Outcomes for the Sectors of Opportunity

- 3.3.1 Analysis of West Dunbartonshire's economic and sector profile indicated that there should be a focus on the following sectors for economic development should appropriate development opportunities be available:
- Food and drink (storage & distribution): developing advanced processes to enable West Dunbartonshire to maintain a role in the vanguard of sector development;
 - Advanced manufacturing, storage and logistics: related to existing clusters of activity and expansion related to energy sector, defence and other requirements; and
 - Office and professional services activity: developing from accessibility to Glasgow Airport and the strategic road network, the potential to develop a differentiated market proposition based on the area's high environmental values (land and river) and the momentum generated by development in West Dunbartonshire's Town Centres and elsewhere.

3.4 Summary Outcomes for Site Access

- 3.4.1 The A82 Trunk Road is the main arterial link through West Dunbartonshire linking to Glasgow in the east as well as Loch Lomond and beyond in the north. It also provides access to the Erskine Bridge which connects West Dunbartonshire with areas on the south bank of the River Clyde via the M8 and strategic road network. The Exxon site is strategically located adjacent to the A82. The OBC presented the options appraisal for providing access to the Exxon site and summarised the Concept Design which existed at that time, including the preferred layouts for access junctions to the east and west of the site.
- 3.4.2 Subsequent work developed the Concept Design to a Preliminary Design which was, along with the overarching Masterplan, granted Planning Permission in Principle (PPiP) in January 2021.
- 3.4.3 Further design evolution, including consultation with Transport Scotland, Network Rail, SEPA, Sustrans and affected landowners together with feedback from the public consultation on the Masterplan has resulted in final design solutions being agreed and now subject to the detailed planning application.

3.5 Long List – Scope, Solution, Delivery & Funding

- 3.5.1 See the OBC for a detailed description of the long list scoping exercise which still holds true.

3.6 Site Development Options - Long List

- 3.6.1 The long list of site development options consists of infrastructure interventions for access and site development. It is assumed that under each of the options described below, apart from the counterfactual, the site is remediated by Exxon and that development platforms would ultimately be provided to ensure any future development satisfies SEPA's requirement for flood risk and drainage.
- 3.6.2 Note, only Option 1, Option 4, and Option 5 are presented in the FBC. Further detail on the other options considered can be found in the OBC.

Option 1 – Counterfactual

- 3.6.3 Under the counterfactual situation, it is anticipated that the Exxon site will not be developed within the 25-year analysis period. The site's infrastructure constraints are a disincentive for private sector investment in the site i.e., the market failure. Under the counterfactual scenario the site is likely to remain disused brownfield land. The anticipated demand for employment

land in West Dunbartonshire post 2022 will not be able to be satisfied by this site and will not be satisfied elsewhere in the area, thus constraining the development and subsequently the employment opportunities in West Dunbartonshire. This will most likely lead to a widening of the job’s deficit in West Dunbartonshire with an associated pressure on neighbouring areas as residents either commute to take up the employment opportunities or residents move away from West Dunbartonshire to other areas.

Option 4 – Full Intervention with Two Access Junctions and Spine Road

- 3.6.4 This Option consists of the preferred eastern and western access junctions and a linking spine road providing full access to the site. This option would allow for the full development of the Exxon site but with the infrastructure required to create development platforms and address flood risk and drainage requirements on the site needing to be met by future occupiers of the site. The infrastructure interventions allow for a continuous spine road to be constructed to the south of the A82.
- 3.6.5 SEPA has expressed that they would require development areas on the site to be raised out of the flood plain before any development were to take place. The additional development costs of constructing raised platforms would reduce the viability of the site to commercial property developers and as such, could delay the full build out of the site by up to 10 years.

Option 5 – Full Intervention plus Development Platforms

- 3.6.6 Option 5 includes the infrastructure delivered under Option 4 plus additional site platforming that would enable the site to be ready for developers to construct commercial and industrial buildings. In doing so, the intervention mitigates the risk of site flooding, increases the viability of the site and is expected to stimulate development at an accelerated rate in comparison to that of Option 4.

3.7 Long-list Appraisal

Performance against Project Objectives

- 3.7.1 The long list of options above has been subject to a desk-based appraisal against the Project Objectives (see Table 3-1 below). This analysis has informed how well each of the long list of options performs against the Strategic Fit Critical Success Factors.

Table 3-1 Option scoring against Project Objectives

Objective/Option	1	4	5
Objective One: Increase the range of commercial and industrial activity in the area.	X	√√√	√√√
Objective Two: Raise levels of economic activity, providing a platform for significant employment and job opportunities for those with differing levels of qualifications and skills.	X	√√	√√√
Objective Three: Create additional and sustainable employment opportunities for West Dunbartonshire communities, increasing the proportion of people who live and work in the area.	X	√√√	√√√

Performance against Critical Success Factors

- 3.7.2 The performance of each long-list option against the Critical Success Factors set out in the strategic case has been qualitatively assessed below.

Option 1 – Counterfactual

3.7.3 Option 1 is carried forward to the short list to represent the deadweight.

Option 4 – Full Access Infrastructure

3.7.4 Option 4 is carried forward to the short list due to the scale of anticipated development it potentially stimulates, albeit at a slower rate than if development platforms were provided. The combination of each preferred access will open the required employment land for the Council, making for a strong strategic fit. Site platforming in this option would be the responsibility of the private sector. Given the site constraints, it is likely that this would have the effect of significantly delaying development and occupation of the employment land.

Option 5 – Comprehensive Infrastructure and Site Platforming

3.7.5 Option 5 is carried forward to the short list because the full intervention is anticipated to stimulate an accelerated rate of development due to the removal of financial risks to developers.

3.7.6 This analysis has informed a quantitative scoring of each option against the Critical Success Factors of the project. The results of this analysis are presented in Table 3-2 below, with Option 5 scoring the highest.

Table 3-2 Option Scoring against Critical Success Factors

CSF/Option	1	4	5
Strategic Fit	0	9	10
Deliverability	10	8	8
Affordability	10	8	7
Value for Money	0	8	9
Score	20	33	34
Rank	5	2	1

3.8 Resulting Short List

3.8.1 The resulting short list of options is:

- Option 1 - Counterfactual
- Option 4 - Full Access Infrastructure
- Option 5 - Full Access Infrastructure plus Site Platforming

3.9 Benefits

3.9.1 The benefits generated by the project are summarised in the Benefits Realisation Profile attached as Appendix E . The benefits are expected to fall into the following categories:

- Infrastructure;
- Transport;
- Employment;
- Environmental;
- Business;
- Financial.

- 3.9.2 In determining benefits, it is assumed that major infrastructure works will start on site in Q4 2023 with work completed in 2026 when plots will be available for development and occupation.
- 3.9.3 The site will then be developed over a 15-year period with related economic benefits delivered in tandem. Full benefit realisation for employment benefits, business benefits and financial benefits is therefore forecast over this period. This time period is believed to be realistic and consistent with other similar regeneration and development projects taken forward over recent decades including the redevelopment of Strathclyde Business Park, Clyde Gateway, the Glasgow Harbour regeneration project near Partick and the Lomondgate mixed use development on the north-western edge of Dumbarton.
- 3.9.4 The benefits are closely linked to the project objectives which put economic growth and activity at the fore. They also have a strong environmental and regeneration component to them which contributes to wider policy objectives at national, regional, and local levels.
- 3.9.5 All the benefits can be measured through the project implementation process or through subsequent monitoring and evaluation of the project’s economic impacts. Further information about how monitoring and evaluation will be undertaken is provided in Chapter 7.
- 3.9.6 Some potential negative effects have been recognised in the table below. Primarily these relate to impacts on sensitive environmental sites and the potential displacement of economic activity from elsewhere in West Dunbartonshire or the Glasgow City Region. Project design and development is seeking to minimise or avoid these impacts wherever possible.

Table 3-3 Qualitative Disbenefits Profile

Disbenefit	Description	Options
Disruption to residents and businesses during construction	This is likely to be a temporary dis-benefit and will be managed with careful stakeholder engagement prior to and during the construction period. This will be complemented by detailed construction management plans (a requirement of contractors), a Communications Plan and direct engagement to raise awareness and pick up issues for future learning	Option 1
		Option 4
		Option 5
Loss of public space to development	A loss of public spaces may occur in some instances as areas of the site begin to be developed. Intervention options mitigate this through increased space for pedestrians and cyclists and by affording more direct access to enhanced areas of public space on the waterfront.	Option 1
		Option 4
		Option 5
Traffic disruption: Conflict between motor vehicles (public and private) and pedestrians and cyclists.	A Communications Plan will ensure all parties are aware of plans and project objectives. Design will also be based on evidence i.e. traffic modelling therefore removal of vehicle traffic should be manageable in traffic management terms. Programming of works to avoid issues around works in close proximity, and utilisation of traffic management specialists within the design team.	Option 1
		Option 4
		Option 5
Increased freight	Despite enhanced infrastructure surrounding and servicing the site, freight traffic as a result of distribution occupiers on the	Option 1

Disbenefit	Description	Options
movement along the A82	site, will inevitably increase. An increase in this particular type of traffic, brings associated traffic accident risks.	<p>Option 4</p> <p>Option 5</p>

4 Economic Case – Short List Analysis

4.1 Introduction

4.1.1 This section provides an economic appraisal of the investment sought from this FBC. The economic impact of the project at a local authority, Glasgow City Region and national level is provided followed by a value for money assessment consistent with HM Treasury Green Book Guidance⁹. A sensitivity analysis examines the effect of changing key variables in the economic model.

4.1.2 The model has been prepared to assess the level of potential employment and GVA created by the project under each of the short-listed options over a period of 25 years. Where applicable, costs and benefits of the project have been discounted in line with best practice guidance at a rate of 3.5% a year to reflect the 25-year analysis period (2019 – 2044). The approach is consistent with the principles outlined in HM Treasury’s Green Book¹⁰, and the Additionality & Economic Impact Assessment Guidance Note - Scottish Enterprise. The model has assessed:

- Construction effects: employment and GVA¹¹ from the infrastructure construction phase of the project and the expected construction of follow on development sites;
- Operational effects: employment and GVA from the operational phases of development plots facilitated or accelerated by the project.

4.1.3 The impacts are detailed at three spatial levels:

- West Dunbartonshire;
- City Region and;
- Scotland.

4.1.4 Costs and benefits (GVA) are rounded to the nearest £100,000, while employment is rounded to the nearest 5 jobs.

Cost

4.1.5 Table 4-1 below presents the non-discounted and discounted (3.5%) capital cost of delivering each option. Given the final stages that the project is now in, Optimism Bias (OB) has been reduced to 0%. However, contingency costs have been included (c.5% for both options).

Table 4-1 Public Capital Costs Inc OB (£m, 2023 prices)

	Non-Discounted	Discounted
Option 4	33.6	33.6
Option 5	40.3	40.3

⁹ HM Treasury Green Book Guidance 2022

¹⁰ HM Treasury Green Book Guidance 2022

¹¹ Gross Value Added (GVA) is a measure of the value of goods and services produced in an area.

Operating and Maintenance Costs

- 4.1.6 The Option 4 and 5 proposals include 1.95km of new spine road and 1.32km of upgraded existing public road (A814). All operating and maintenance costs will be attributed directly to the ongoing management of the road network which will require to be accommodated by West Dunbartonshire Council. Capital and maintenance costs are contained within Chapter 6 – Financial Case.
- 4.1.7 To assess the impact of each intervention over a 25-year period, the total non-discounted capital expenditure of each intervention is divided by what it takes to support one construction worker for one year - known as the turnover per employee which is presented separately for infrastructure and development construction employees in the table below.

Table 4-2 Turnover Per Construction Employee (2022)

	West Dunbartonshire	City Region	Scotland
Infrastructure Construction Phase	£120,618	£161,754	£174,436

Note: Turnover per construction employee has changed significantly since the OBC was completed. For example, the City Region Infrastructure Construction Turnover per Construction Employee has increase from £73,788 to £161,754 (119%). This can be explained by the fact that construction in Scotland has come back strongly from COVID-19, needing 26,250 extra jobs to be created by 2025¹³.

The Scottish sector is expected to grow by an annual average rate of 4.1% and recovering to pre-pandemic growth levels by 2023 according to a new study from the Construction Industry Training Board (CITB).

Major projects such as wind farms, including the Firth of Forth; the Edinburgh Tram extension; a £3.6bn Scottish water investment programme; and the first Moray Firth turbines are driving strong annual average output growth in infrastructure (4.7%) between the end of 2020 and 2025. Also expected to do well is private housing (6.3%).

While this FBC notes a larger capital expenditure, the result of a higher turnover per construction employee will result in a lower number of gross construction jobs.

Additionality Assumptions (Construction)

- 4.1.8 To comply with best practice, anticipated construction and operational effects have been adjusted for additionality factors. Appropriate economic appraisal guidance and understanding of the local area’s socio-economic characteristics has been used to estimate values for leakage, displacement, and multipliers as noted below. Operational Additionality tables can be found in Appendix G
- Deadweight – the proportion of benefits that would have happened regardless of intervention. Note, Option 1 represents this counterfactual position.
 - Leakage - the proportion of employment opportunities accessed by people living outside the local area.

¹² Scottish Government Turnover and GVA Tables – Accessed 2018

¹³ Available at: <https://www.citb.co.uk/about-citb/news-events-and-blogs/scotland-construction-sector-to-grow-41-with-26-250-extra-jobs-needed-to-meet-demand/>

- Displacement – the proportion of the project’s benefits accounted for by a reduction in benefits elsewhere.
- Multipliers – to estimate further economic activity associated with additional income and supplier purchases (i.e. indirect and induced expenditure).

Table 4-3 Additionality Assumptions (Construction)

Additionality Factor	West Dunbartonshire	City Region	Scotland
Leakage	40% (West Dunbartonshire has some 1,250 construction employees; therefore, it is assumed that just under half of construction workers will come from within the local authority area)	25% (More than one in three construction workers in Scotland are based in the Clyde Valley area suggesting that leakage of construction jobs outside Clyde Valley is likely to be limited)	10% (A proportion of construction jobs could be absorbed outside Scotland due to best value procurement or specialist skills requirements)
Displacement	10% (In light of the high level of construction labour available in West Dunbartonshire, the level of displacement is assumed to be low)	30% (The infrastructure work and development construction may involve construction workers forgoing other construction activities at a regional level)	45% (Due to the attraction of other opportunities, increased competition at Scotland level it is likely to involve construction workers forgoing other construction activities)
Multiplier	1.41 (60% of City Region multiplier)	1.68 (80% of national multiplier)	1.85 (Type II Scottish multiplier for the construction industry)

Gross Direct Infrastructure Construction Jobs

4.1.9 Gross infrastructure construction employment by option is shown below.

Table 4-4 Gross Infrastructure Construction Jobs

	Capital Expenditure Employment
Option 4	305
Option 5	365

Net Direct Infrastructure Construction Employment

4.1.10 Net direct infrastructure employment supported by each intervention is calculated by applying the construction additionally factors noted above. The results are as shown in Table 4-5 below.

Table 4-5 Net Direct Infrastructure Construction Jobs

	West Dunbartonshire	City Region	Scotland
Option 4	230	265	275
Option 5	275	320	330

Total Infrastructure Construction GVA

- 4.1.11 GVA generated by the infrastructure construction employment is calculated by multiplying the net direct employment in the table above, by the GVA per infrastructure construction worker below to give the total infrastructure construction GVA for each option.

Table 4-6 GVA per Infrastructure Construction Employee (2022)

	West Dunbartonshire	City Region	Scotland
Infrastructure Construction (£)	61,489	62,637	66,884
Development Construction (£)	44,389	70,609	56,171

Note: GVA per Infrastructure Construction Employee has declined since the completion of the OBC. For example, GVA per Infrastructure Construction Employee in the City Region has decreased from £73,788 to £62,637 (15%). This likely a reflection of the productivity of the industry throughout COVID and lack of sufficient construction labour.

The decline will lead to a lower construction GVA from OBC to FBC.

- 4.1.12 The Gross Construction GVA from Infrastructure for each option is shown below.

Table 4-7 Gross Direct Infrastructure Construction Nominal GVA (£m)

	West Dunbartonshire	City Region	Scotland
Option 4	13.5	15.9	17.6
Option 5	16.2	19.1	21.2

- 4.1.13 Gross GVA is discounted at 3.5% over the 25-year analysis period to derive the net direct GVA generated by the supported infrastructure construction employment.

Table 4-8 Net Direct Infrastructure Construction Discounted GVA (£m)

	West Dunbartonshire	City Region	Scotland
Option 4	12.3	14.5	16.0
Option 5	14.8	17.4	19.2

Development Construction

- 4.1.14 The infrastructure construction phase of the project can only deliver temporary outcomes. The lasting economic impacts from this project will stem from the development of mainly commercial/industrial sites enabled or accelerated by the project.

¹⁴ Scottish Government Industry Tables.

4.1.15 A schedule of plots facilitated by the project have been identified. A breakdown of the plots by anticipated use can be found in the table below. This is presented as the Gross External Area (GEA) used to calculate development construction costs (private sector investment).

4.1.16 The GEA of each plot is multiplied by the average build cost for each use in West Dunbartonshire. This is derived from the Build Cost Information Service (BCIS), October 2022.

Table 4-9 Development Plots (GEA m²)

	Option 1	Option 4	Option 5	BCIS
Class 2 Financial and Professional Services	-	1,752	1,752	£2,411
Class 4 Business	-	7,860	7,860	£2,411
Class 5 General Industry	-	9,900	9,900	£1,284
Class 6 Distribution	-	25,000	25,000	£933
Total	-	44,512	44,512	

4.1.17 Note that the development levels anticipated under Options 4 and 5 are the same. However, in the absence of a comprehensive approach to platforming, private sector investment under Option 4 is expected to come at a lower rate as shown in the table below.

Table 4-10 Total Private Sector Investment (£m)

	Discounted
Option 4	30.1
Option 5	43.8

4.1.18 The number of Gross Development Construction jobs shown below is calculated by dividing the non-discounted private sector investment, by the average turnover per development construction employee.

Table 4-11 Gross Development Construction Jobs

	Gross Jobs
Option 4	660
Option 5	660

4.1.19 Construction additionality factors are applied to the gross development construction employment to derive the net direct employment at each spatial area as shown below.

Table 4-12 Net Direct Construction Jobs

	West Dunbartonshire	City Region	Scotland
Option 4	500	575	595
Option 5	500	575	595

4.1.20 The anticipated GVA generated by the net direct development construction jobs is presented below.

Table 4-13 Gross Development Contraction GVA (£m)

	West Dunbartonshire	City Region	Scotland
Option 4	22.1	40.6	33.5
Option 5	22.1	40.6	33.5

4.1.21 Gross GVA is discounted at 3.5% over the 25-year analysis period to derive the net direct GVA generated by the supported development construction employment as shown below.

Table 4-14 Net Direct Development Construction GVA (£m)

	West Dunbartonshire	City Region	Scotland
Option 4	11.2	20.6	17.0
Option 5	16.3	30.0	24.8

Operational Impact Assessment

4.1.22 The long-term impact of each intervention is calculated from the operational aspects of each of the anticipated development plots. To reflect the gradual occupation of each site, a 1-year occupation lag (following completion) has been assumed.

4.1.23 To measure this impact, employment densities have been applied to enabled development floorspace to generate employment outputs. Consistent with the methodology set out in the HCA Employment Densities Guide, Net Internal Area (NIA) has been used to estimate operational employment were stated. The GEA of development plots associated with each option presented above has been converted with reference to the use class of each. These parameters are presented in full in Appendix G

4.1.24 A schedule of enabled development floorspace is included at Table 4-15 with the employment density assumptions for different uses. Gross operational jobs are then presented below.

Table 4-15 Development Plots (areas used for employment calculation)

Development Plots	Development Plots			Employment Densities
	Option 1	Option 4	Option 5	FTE/sqm
Class 2 Financial and Professional Services (NIA)	-	1,415	1,415	15
Class 4 Business (NIA)	-	6,347	6,347	12
Class 5 General Industry (GIA)	-	8,910	8,910	50
Class 6 Distribution (GEA)	-	25,000	25,000	77
Total	-	41,672	41,672	

Table 4-16 Gross Operational Jobs

	Gross Jobs
Option 4	980
Option 5	980

4.1.25 Additionality factors are applied to the gross employment to reflect the leakage, displacement and industry multipliers used at each geography to calculate the net operational jobs shown in the table below. These factors are presented in Appendix F . Note; the deadweight is Option 1, the Counterfactual.

Table 4-17 Net Direct Operational Jobs

	West Dunbartonshire	City Region	Scotland
Option 4	915	970	890
Option 5	915	970	890

4.1.26 Net direct operational employment is multiplied by the GVA per head factors found in Appendix F to derive the Gross Operational GVA shown below.

Table 4-18 Gross Direct Operational Nominal GVA (£m)

Gross Operational GVA (£m)			
	West Dunbartonshire	City Region	Scotland
Option 4	217.6	277.2	210.7
Option 5	632.5	848.3	622.3

4.1.27 Gross GVA is discounted at 3.5% over the 25-year analysis period to derive the net direct GVA generated by the supported operational employment. The results are shown in below.

Table 4-19 Discounted Net Direct Operational GVA (£m)

	West Dunbartonshire	City Region	Scotland
Option 4	101.0	128.3	97.7
Option 5	355.4	473.4	348.9

Total GVA Impact

4.1.28 Total (Gross and Net) GVA impact is calculated by adding the GVA derived from infrastructure and development construction, plus the operational GVA. The results are presented below.

Table 4-20 Total Gross Direct GVA (£m)

	West Dunbartonshire	City Region	Scotland
Option 4	253.2	333.7	261.8
Option 5	670.8	908.0	677.0

4.1.29 The resulting total net direct discounted GVA is shown below.

Table 4-21 Total Net Direct Discounted GVA (£m)

	West Dunbartonshire	City Region	Scotland
Option 4	124.5	163.5	130.7
Option 5	386.5	520.8	392.9

4.1.30 Option 1, the counterfactual representing the deadweight, is deducted from each option to determine the additional economic benefit stimulated by each intervention.

Table 4-22 Additional NPV GVA (£m)

	West Dunbartonshire	City Region	Scotland
Option 4	124.5	163.5	130.7
Option 5	386.5	520.8	392.9

4.1.31 It is anticipated that Option 5, full intervention, would stimulate up to £520m in additional GVA for the City Region economy by 2047 whilst Option 4 would generate £163m.

4.2 Cost Benefit Analysis

4.2.1 The following section presents a cost benefit analysis of each option, determining each intervention's Value for Money (VfM). The first analysis shown below, cost per job, shows the net operational jobs¹⁵ against each option cost.

Table 4-23 Cost Per Job (City Region)

¹⁵ As per HCA guidance, construction jobs are not counted in this analysis due to their temporary and transient nature.

	Cost (£m)	Additional Jobs	Cost Per Job (£)
Option 4	36.91	970	38,053
Option 5	48.40	970	45,696

Value for Money – Benefit Cost Ratios

- 4.2.2 Value for money is determined by the Benefit Cost Ratio (BCR). Net additional GVA is divided by the cost of each intervention. A BCR of greater than one indicates good value for money e.g., a BCR of 2.0 means a £2 return in GVA for every £1 of money invested (Public or Public and Private). The results are provided below.

Table 4-24 Value for Money

City Region			
	Present Value Costs (Capital and Revenue)	Present Value GVA	BCR
Public Sector Only			
Option 1	-	-	-
		Present Value Net Additional GVA	
Option 4	33.6	163.5	4.9
Option 5	40.3	520.8	12.9
Public and Private Sector			
Option 1	-	-	-
		Present Value Net Additional GVA	
Option 4	63.7	163.5	2.6
Option 5	84.1	520.8	6.2

- 4.2.3 The results in Table 4-24 show that Option 5 is estimated to generate a Public Sector BCR of 12.9 and a Public and Private Sector BCR of 6.2, indicating a good return for the investment.

Sensitivity Analysis

- 4.2.4 The Preferred Option has been subjected to a sensitivity analysis to test the robustness of the results against a rise in the cost of the project and unfavourable economic conditions, post intervention.
- 4.2.5 The first analysis, switching value, increases the cost of the project to a point that would generate a BCR of less than one, indicating poor value for money. The results are presented below.

Table 4-25 Switching Value Analysis

City Region			
	Present Value Costs (Capital and Revenue)	Present Value GVA	BCR
Public Sector Only			
Option 1	-	-	-
		Present Value Net Additional GVA	
Option 4	33.6	163.5	4.9
Option 5	534.7	520.8	1.0
Public and Private Sector			
Option 1	-	-	-
		Present Value Net Additional GVA	
Option 4	63.7	163.5	2.6
Option 5	578.5	520.8	0.9

4.2.6 The switching value analysis indicates that the cost of the preferred intervention would have to increase by 1,227% to derive a BCR of less than one.

4.2.7 Further sensitivity analysis presented below shows that the additional GVA would need to decrease by 85.5% to generate a BCR of less than 1.

Table 4-26 Sensitivity Testing

City Region			
	Present Value Costs (Capital and Revenue)	Present Value GVA	BCR
Public Sector Only			
Option 1	-	-	-
		Present Value Net Additional GVA	
Option 4	33.6	23.7	0.7
Option 5	40.3	75.5	1.9
Public and Private Sector			
Option 1	-	-	-
		Present Value Net Additional GVA	
Option 4	63.7	23.7	0.4
Option 5	84.1	75.5	0.9

4.3 Confirmation of the Results

The results for the Preferred Option are presented below.

Table 4-27 Confirmation of the Preferred Option

Preferred Option Results (Option 5) (City Region) (Net Additional)						
	2022	2027	2032	2037	2042	2047
Cumulative discounted Public-Sector Investment (£m)	8.9	40.3	40.3	40.3	40.3	40.3
Infrastructure						
Cumulative gross jobs	-	365	365	365	365	365
Cumulative net jobs	-	320	320	320	320	320
GVA (£m)	-	17.4	17.4	17.4	17.4	17.4
Development Construction						
Cumulative net direct private sector investment (£m) - Option 5	-	9.7	37.9	43.8	43.8	43.8
Cumulative net direct private sector investment (£m) - Option 1	-	-	-	-	-	-
Cumulative net additional private sector investment (£m)	-	9.70	37.90	43.80	43.80	43.80
Cumulative gross direct enabled jobs - Option 5	-	135	560	660	660	660
Cumulative gross direct enabled jobs - Option 1	-	-	-	-	-	-
Cumulative net additional gross enabled jobs	-	135	560	660	660	660
Cumulative net direct enabled jobs - Option 5	-	115	490	575	575	575
Cumulative net direct enabled jobs - Option 1	-	-	-	-	-	-
Cumulative net additional net jobs	-	115	490	575	575	575
Cumulative net direct GVA (£m) - Option 5	-	6.7	26.0	30.0	30.0	30.0

Preferred Option Results (Option 5) (City Region) (Net Additional)						
	2022	2027	2032	2037	2042	2047
Cumulative net direct GVA (£m) - Option 1	-	-	-	-	-	-
Cumulative net additional GVA (£m) Operation	-	6.70	26.00	30.00	30.00	30.00
Cumulative gross direct enabled jobs - Option 5	-	-	780	980	980	980
Cumulative gross direct enabled jobs - Option 1	-	-	-	-	-	-
Cumulative net additional gross enabled jobs	-	-	780	980	980	980
Cumulative net direct enabled jobs - Option 5	-	-	745	970	970	970
Cumulative net direct enabled jobs - Option 1	-	-	-	-	-	-
Cumulative net additional net jobs	-	-	745	970	970	970
Cumulative net direct GVA (£m) - Option 5	-	-	84.3	241.2	379.0	473.4
Cumulative net direct GVA (£m) - Option 1	-	-	-	-	-	-
Cumulative net additional GVA (£m)	-	-	84.3	241.2	379.0	473.4
Total net NPV GVA (£m) Option 5	-	24.1	127.7	288.6	426.4	520.8
Total net NPV GVA (£m) Option 1	-	-	-	-	-	-
Total net additional NPV GVA (£m)	-	24.1	127.7	288.6	426.4	520.8

4.4 Value for Money – Wider Impacts

4.4.1 Addressing market failure of the Exxon site will result in qualitative beneficial outcomes, which while not quantified, play an important role in capturing the full extent of the socio-economic impact of the options. The table below summarises the anticipated qualitative benefits and the likely magnitude of scale under each option based on a RAG scoring system (i.e. red = no or minimal impact; amber = moderate impact; green = considerable impact).

Table 4-28 Qualitative Benefits

Qualitative Benefit	Description	Options
Land value uplift	Land value is expected to increase because of improved accessibility to the site. The waterfront area presently seen as neglected, stands to benefit most from environmental improvements carried out on the site. The improved road infrastructure is likely to have positive effects on the value of neighboring land.	Option 1
		Option 4
		Option 5
Improved connectivity	Development of new spine road to the south of the A82 will help to support traffic flows in the event of a closure along the section to the north of the Exxon site. This will have unquantified knock on benefits to businesses, residents and visitors using the route.	Option 1
		Option 4
		Option 5
Enhanced socio-economic mix (Distributional impacts)	Anticipated growth in employment opportunities through the development of the currently vacant/derelict site will help reduce unemployment across West Dunbartonshire and the wider City Region. Improved connectivity will promote access to employment opportunities. Development of new high quality modern facilities within the project area will help attract professional and other groups of workers who may otherwise have chosen to live elsewhere. Progress in doing so will be dependent on approach adopted by landowners and related planning policies.	Option 1
		Option 4
		Option 5
Enhanced quality of life	Improvements to the active travel routes through the site and delivery of green space in conjunction with the site is likely to result in an enhanced quality of life for both residents and future employees on the site.	Option 1
		Option 4
		Option 5

Value for Money - Transport Economic Efficiency (TEE) Impacts

- 4.4.2 As part of the FBC, it is important to demonstrate value for money for proposed investment in transport infrastructure. The project is a development project where the provision of suitable access arrangements is dependent on a wide range of physical constraints. The design work undertaken has ensured that the optimum design solution has been prepared. TEE impacts have been summarised from examination of traffic modelling results.
- 4.4.3 To provide an appropriate level of information in the FBC, a summary of the assessments which led to the recommendations for the design has been provided below. A high level, qualitative

discussion has been provided which documents key elements which should be considered within a TEE appraisal and illustrates where benefits and dis-benefits may be anticipated.

4.4.4 Given the constraints on providing access to the development site, it is considered that a high-level qualitative assessment of TEE impacts is sufficient. To date, consideration has been given to the potential impact of the Project on the following aspects:

- Journey Time Savings / Increases
- Journey Time Reliability
- Fuel / Tax
- Farebox Revenue
- Vehicle Operating Costs
- Operating & Maintenance Costs
- Grant & Subsidy Payments
- Potential demand and usage.

4.4.5 The scope of these impacts is summarised below.

Journey Time Savings / Increases

4.4.6 The development of the site will result in additional traffic accessing the A82/A814 road network via junctions at the east and west ends of the site. The development of the junction arrangements has carefully considered the capacity at these junctions and the proposals have been developed based on providing at least no net detriment to traffic on the existing road network. Increased capacity and rationalised junctions are currently proposed. Transport Scotland has indicated its support for the junction and network improvements proposed.

Journey Time Reliability

4.4.7 The diversion route in the event of a closure of the A82 between the A82/A814 Dunglass Junction and the A82/A814 Dumbuck junction is via neighbouring adjacent local authorities and is some 29 miles or thereby. The provision of a convenient alternative route will eliminate the necessity for this diversionary route, secure journey time reliability for public transport and result in a commensurate reduction in associated costs and emissions.

4.4.8 The provision of an alternative route will significantly improve the “Blue Light” access to the Golden Jubilee and Queen Elizabeth hospitals as journey times to these facilities can be significantly increased if there are issues such as those noted above.

Fuel / Tax

4.4.9 At this stage, we do not anticipate the proposed intervention to encourage significant modal shift. As such, there will be no notable changes in fuel consumption from private vehicles and no associated loss of income to HM Treasury from tax on fuel sales.

Farebox Revenue

4.4.10 There are unlikely to be any significant changes to public transport provision because of the City Deal project itself. Impacts will therefore be negligible.

Vehicle Operating Costs

4.4.11 Changes in vehicle operating costs will be marginal because of the City Deal project although there may be impacts as a result of resulting development proposals.

Grant & Subsidy Payments

- 4.4.12 The project concerns construction of a new spine road and does not include any ongoing grant or subsidy costs necessary to support public transport infrastructure. We have assumed that all capital expenditure will be provided by Glasgow City Region City Deal and Council funding with no ongoing requirement for grant and subsidy payments.

Potential Demand and Usage

- 4.4.13 Although the site could physically accommodate greater levels of development, the Masterplanning of the site has restricted development to a quantum that will result in no more than 1000 peak hour trips to/from the development site. It is therefore expected that resulting development traffic flows can be accommodated on the road network with no net detriment.

Distributional/ Equity Factors

- 4.4.14 Public agencies will continue to support initiatives to address local and strategic employment deficits. This project is entirely consistent with these initiatives, and will complement skills development and other programmes, creating an opportunity to achieve a major shift in the accessibility of jobs and opportunities.
- 4.4.15 Distributional/ Equity Factors have informed the selection of the Preferred Option, the Council working with a variety of stakeholders and partner organisations, will seek to maximise the distributional advantages and effects this option offers by ensuring the opportunities are open to everyone.

Economic Risks

- 4.4.16 The main economic risks to the project and actions to mitigate those risks are shown below.

Table 4-29 Qualitative Benefits

Risk No.	Risk Description	Mitigation Action
001	Alternative sites are deemed more attractive for development reducing the attractiveness of former Exxon site	Option appraisal has identified capacity for and attractiveness of former Exxon site as other local development sites are expected to be fully developed over next 10 years
003	Insufficient market demand to deliver the desired levels of economic activity and GVA forecast	Ensure fully market ready site is delivered through the project and early and continuous commercial marketing of opportunities will be undertaken including liaison with key bodies including SDI and SE.
002	City Deal does not achieve target GVA levels throughout City Region with associated financial impact	Work closely with other City Deal partners to deliver projects successfully.

5 Commercial Case

5.1 Introduction

- 5.1.1 This Chapter sets out the commercial case for delivery of the project. It documents the involvement of other parties and identifies the key challenges and risks.
- 5.1.2 No private sector funding is required to deliver the project.
- 5.1.3 Where the Council is required to acquire third party land, payment will be made from Council funds through direct transfer.

5.2 Delivery Specification

- 5.2.1 The Council is responsible for delivering the infrastructure detailed in the project description. The success of the project is dependent on the effective delivery of this infrastructure and the follow-on commercial elements (commercial and industrial buildings) that will subsequently drive the project benefits.
- 5.2.2 Close consultation and programme coordination with key public and private sector stakeholders will be carried out to ensure the project is delivered without conflict with other operations.
- 5.2.3 A Basis of Design document was developed for the project in November 2016 and subsequently updated as the Detailed Design has been developed. Its purpose is to define strategic infrastructure works required for the site and be the approved source of input data for the project team. It defines the criteria to be used for the design of each element of the works as follows:
- 5.2.4 Key stakeholders with an interest in the infrastructure design, particularly Network Rail, Transport Scotland, Scottish Water and SEPA are continuously being engaged in relation to their requirements. In the case of Network Rail this is related to the bridging of the railway line whilst Transport Scotland is concerned with the connections to the Trunk Road network. Scottish Water have interest in the site drainage and SEPA in the flood risk mitigation.
- 5.2.5 SEPA, NatureScot, RSPB and other stakeholders will continue to influence the development of the project and the environmental mitigation measures associated with the infrastructure.
- 5.2.6 Within the Council, the delivery specification is being determined in accordance with the requirements of various services involved in the project, including:
- 5.2.7 The Detailed Planning Application is scheduled to be submitted in June 2023 and the Conditions which will be attached to its approval will form the basis of the delivery specification for construction.

Project Delivery - Direct Deliverables

- 5.2.8 The project will be delivered by the Council through its Capital Projects Team which will have overall project management responsibility for all elements of the project.
- 5.2.9 The infrastructure created or upgraded by the project will be adopted as public assets on completion, including the new spine road infrastructure with associated footways, cycleways, lighting, greenspace and plot access junctions and links to existing public roads infrastructure.
- 5.2.10 Construction of all project elements will be procured and managed by the Council. The works comprising this project will be separated into distinct works contracts, in recognition of the

different specialisms and complexity requirements of each element. Network Rail will deliver the Western Underbridge under contract to the Council.

- 5.2.11 It is anticipated that the works will be divided into several packages including those for roads, bridges, utilities, flood mitigation and drainage, greenspace and public realm and Balfour Beatty has been appointed under the Scape Procure Scotland Framework to undertake the works subject to all approvals and design details being agreed.
- 5.2.12 The project is expected to be delivered in the period from 2023 to 2026 with plots available for development thereafter.

Project Delivery – Indirect Deliverables

- 5.2.13 The project will support the development of industrial and business land. City Deal Infrastructure Investment will enable the realisation of existing private sector development interest by addressing the market failure identified and will act as a catalyst for further private sector investment in commercial development.
- 5.2.14 As indicated in the Risk Register (Appendix D), the Council recognises a potential lack of commercial demand as a critical risk. In mitigation, it is committed to early and continuous market engagement and promotion of opportunities as they become market ready, including operational liaison with SCDI, Scottish Enterprise and key private sector interests.

5.3 Funding Options and Payment Arrangements

- 5.3.1 The Council's Treasury Management policies, practices and activities meet the requirements of the Chartered Institute of Public Finance and Accountancy (CIPFA) Treasury Management Code of Practice and the Prudential Code for Capital Finance in Local Authorities. The Council's Treasury Management Strategy (TMS) is approved in line with this code.
- 5.3.2 This strategy incorporates an investment and borrowing strategy, including the option to use the Public Works Loan Board as a source of borrowing, and the setting of Prudential and Treasury Indicators over a ten-year period. In line with the requirements of the code, the Council produces a mid-year report in September/October which updates and revises the current year indicators if required. The Council's investment plans are managed within a sound financial environment.
- 5.3.3 The infrastructure is not dependent upon private sector funding sources for delivery as it is expected that the site can be brought to market using the funds provided through the Glasgow City Region City Deal including the identified contribution from the Council. Private sector investment will subsequently be expected to facilitate the development of the individual plots. This will be dependent upon market demand at the time of releasing the land. As set out in the strategic case, it is anticipated that there will be a demand for additional developable land in West Dunbartonshire by the time the site is brought to market. Therefore, the private sector investment required to facilitate the build out of the site is expected to be forthcoming, however, the Council will continue discussions with potential site developers and occupiers. Potential capital receipts from sale of plots have not been factored into the financing to date.
- 5.3.4 Partnership working, marketing and discussions with one or more large tenants which could help 'anchor' the development have taken place with a view to establishing investment in the site as soon as it is ready to be occupied.
- 5.3.5 Given the long timescales anticipated to realise the full build out of the site it is not expected to be a significant barrier to the successful development of the site if the private sector does not come forward immediately to develop the site.

- 5.3.6 The Council intends to make use of Prudential Borrowing to fund the initial investment in the project before City Deal grant funding is received and for the Council's overall share of the investment cost (14%).
- 5.3.7 Payments to external parties (i.e. contractors, etc.) will be made upon the satisfactory completion of tasks and upon the reaching of pre-agreed milestone points in the project. The exact payment points will be agreed between the Council and its appointed contractors in accordance with the terms and conditions agreed at appointment and the requirements of the Construction Act.
- 5.3.8 The Council has sought to secure additional / replacement funding from other sources, but in the current economic climate this has proved impractical. There are a limited number of funding sources for development infrastructure investment. Sources explored include the following.
- Developer contributions – there is no prospective developer for the site until such time as the ownership and infrastructure constraints are addressed.
 - The Council – funding would need to be provided from prudential borrowing and would therefore reduce investment available for other planned project proposals.
 - Scottish Government – there are no current funding programmes that would cover the cost of infrastructure and site servicing.
 - Transport Scotland – would not fund where the need is generated by a single development project (i.e., Exxon site) and is focused on delivering against an identified programme of trunk road projects.

5.4 Procurement and Community Benefits Strategy

- 5.4.1 There is an over-arching Procurement Strategy jointly developed and agreed between the Council and the Glasgow City Region – City Deal local authorities. A five-year procurement plan has been developed reflecting the requirements of the Cabinet, Chief Executives Group, Lead Officers, and PMO. Detail of the Community Benefits approach is provided in Chapter 7.

Procurement Strategy

- 5.4.2 Over the past two years, the Exxon Project Board has considered and approved the procurement of works. A Lead Consultant contract was awarded to Stantec in March 2015 and updated in October 2016. The latter was procured as a direct award via the South Lanarkshire Professional Services framework agreement which came to an end in June 2022 when a Delivery Agent contract for elements of the Exxon Site Development was awarded to Stantec in May 2022 via the Scotland Excel Engineering and Technical Consultancy framework agreement.
- 5.4.3 The Exxon Project Board considered the options for the design and construction of the site and approved the Pre-Construction Services at the Former Bowling Site, Milton, Delivery Agreement utilising the Scape Procure Scotland Limited framework agreement for Civil Engineering which was awarded on 17 March 2023. If the design meets the Council's expectations, the Council will proceed to construction utilising the same framework agreement in Q4 2023.
- 5.4.4 Other specialist contracts have been placed to support the development of this project as needed.

Justification for the Proposed Approach

- 5.4.5 The Council has significant experience in major contract procurement and will utilise this knowledge and experience throughout this project.

Key Procurement Milestones and Delivery Dates

5.4.6 Key procurement dates are as shown in Table 5-1 below.

Table 5-1 Procurement Milestones

Action	Programme Date
Completion of site remediation	December 2023
Complete FBC and update commercial and financial cases	June 2023
Commencement of works	Q4 2023
Completion of infrastructure works	April 2026
Project Monitoring and Evaluation	December 2026 – March 2046

5.5 Commercial Risks

5.5.1 The following top 3 commercial risks have been identified and are described in further detail in the Risk Register in Appendix D

- Following site acquisition, remediation and servicing, potential lack of commercial demand is a critical risk (003)
- Necessary statutory approvals for development cannot be gained, additional requirements or are delayed (Internal/External) (048); and
- Programme slippage incurs additional project costs (Internal) (021).

6 Financial Case

6.1 Overall Project Approval

- 6.1.1 The project has an approval sum of £27,897,000m as ratified by Cabinet in August 2015. The current estimated project cost is £44,324,635 in June 2023 reflecting increased construction cost estimates. This total is inclusive of contingency which provide mitigation against programme risks.
- 6.1.2 Tender cost estimates, which have been prepared by contractors during the preparation of this FBC, have been prepared for the construction works including consideration of external consultancy input, internal design, and management input, enabling works, and monitoring requirements.

6.2 Project Funding

- 6.2.1 The Council secured committee approval for the Strategic Business Case on 24 June 2015, and this was subsequently approved by the City Region Cabinet on 18 August 2015. The Outline Business Case (OBC) for the City Deal project was approved at Council on 22 February 2017 with a budget of £27.897m funding from City Deal and the Council's 14% contribution commitment equating to £3.906m. This was subsequently approved by the City Region Cabinet on 11 April 2017.
- 6.2.2 A revised OBC requesting City Deal funding of £34.050m including a 14% Council commitment of £4.767m was approved at Council on 28 November 2018. At the same meeting it was agreed that should the additional City Region funding not be made available; the Council would fund the additional capital spend noting that an expected future receipt from plot sales of around £1.6m would offset this spend.
- 6.2.3 Private sector contributions will take the form of developer contributions or land sales when the site is brought to market. No private sector investment is presently being levered to support the site infrastructure and servicing needed to make the site effective, but its attraction once this activity is completed is an essential requirement in achieving the anticipated economic benefits.

6.3 Summary of Project Costs

- 6.3.1 The initial capital cost estimates for the project were established during negotiations to establish the Glasgow City Region City Deal in 2014. Since then, work has been completed to develop a Masterplan, a detailed design, and an updated work programme. This greater understanding has enabled updated capital costs to be estimated, now at 2023 prices, for a construction period from Q4 2023 to 2026. The project costs are presented below in Table 6-1.

Table 6-1 Project Capital Costs (Option 5) – June 2023

Item	Cost (£)
SPINE Road	6,848,746
Dunglass Junction	1,823,727
Dumbuck Junction	938,287
Eastern Overbridge	548,106
Western Underbridge	5,389,788
NCN Route 7	925,817
Flood Mitigation / Development Platforms	4,853,311
Site Drainage	1,501,402
Public Realm Works	0
Utilities Diversion	1,103,206
3rd Party Land	433,400
Professional Fees	6,158,486
Construction Preliminaries	11,465,356
Contingencies	2,335,002
Total	44,324,635

Notes: Contingency is consistent with the level of design detail available

- 6.3.2 It is anticipated that the Council's share of the investment will be £6,205,449 representing 14%, with the remainder being funded by grant from the UK and Scottish Governments.

Table 6-2 Project Finance Overview

Project Finance Overview	
	£m
Section 1 - Overall Project Approval	
Approved Baseline Project Cost (Per City Deal Formal Approval)	27.897
Cabinet Virement Approvals	0
Revised Approved Project Cost	27.897
Current Project Estimate (including Development Platforms)	44.325
Section 2 - Project Funding	
Council Funding	6.205
Third Party Contributions (additional to section 1 above)	0
Amount to be funded from City Deal Grant	38.120
Total Funding	44.325

Section 3 - Summary of Project Costs	
SPINE Road	6.849
Dunglass Junction	1.824
Dumbuck Junction	0.938
Eastern Overbridge	0.548
Western Underbridge	5.390
NCN Route 7	0.926
Flood Mitigation	4.853
Site Drainage	1.501
Public Realm Works	0.000
Utilities Diversion	1.103
3rd Party Land	0.433
Professional Fees	6.158
Construction Preliminaries	11.465
Contingency	2.335
Total	44.325
Phasing of Project Expenditure	
Year	£m
2015/16	0.192
2016/17	0.353
2017/18	0.468
2018/19	0.304
2019/20	0.196
2020/21	0.723
2021/22	0.444
2022/23	1.265
2023/24	7.277
2024/25	20.728
2025/26	10.969
2026/27	1.406
Total	44.325
Project Expenditure on Non-Council Assets	
	£m
Estimated Expenditure on Assets not Council Owned (third party land acquisition costs)	0.433
Section 4 - Ongoing Revenue Implications	

	£m
Full Year Revenue Implications	0.072
First Year Revenue implications	0.005
Revenue Funding Source	WDC General Fund budget
Main Financial Dependencies	
Capital Funding from the Glasgow City Region City Deal	
Achievement of milestones as defined by SG/UKG linked to funding of City Deal.	
Main Financial Risks	
Slippage or delay in the programme incurring additional costs	
Insufficient funding due to complexity of site	
Insufficient availability of non-financial resources for project delivery	
Risk of milestones not being achieved e.g. GVA and therefore loss of grant funding.	
Risk that the project does not proceed as a City Deal project thereby any costs incurred fall fully on WDC.	
If after significant spend it becomes clear that the total cost is significantly underestimated and City Deal can't fund the addition, there is a risk to project completion with all or part of the cost falling to WDC with no deliverable site.	

6.4 Expenditure on Assets Not Council Owned

- 6.4.1 The Council must acquire land from third parties and there will be associated costs, however these are currently subject to confidential commercial negotiations.
- 6.4.2 The existing railway bridge at the eastern end of the site will remain in the Council's ownership and the Council will have full responsibility for its ongoing maintenance.
- 6.4.3 The proposed new underpass of the railway at the western end of the site will transfer to the ownership of Network Rail but under a maintenance agreement with the Council.
- 6.4.4 Current Scottish Government guidance allows the Council to invest capital resources in assets that are not owned by the Council.

6.5 Ongoing Revenue Implications

- 6.5.1 The road infrastructure constructed as part of the project will be adopted by the appropriate roads authority, either Transport Scotland or the Council, as part of the public road network.
- 6.5.2 The eastern and western junctions connecting to the A82, the site spine road and all associated infrastructure will become part of the local road network. There will consequently be an ongoing requirement for their maintenance, the costs of which will be met as part of the local authority's continuous cycle of revenue expenditure. Following adoption of the works, the infrastructure will be inspected in line with the Council's road asset management plan and defect repairs/resurfacing etc. will be programmed in line with the Council's defect management plan.

- 6.5.3 Any modifications on the A82 Trunk Road and the traffic signals at both the eastern and western junctions will become the maintenance responsibility of Transport Scotland as the roads authority for the strategic road network.
- 6.5.4 It is not expected that there will be a requirement for any maintenance work to be undertaken on the carriageway or footways until 12 months after construction. The full year estimated revenue cost for 2026/27 for the new and upgraded infrastructure is approximately £72,000 per annum and will be funded in perpetuity by the Council.

6.6 Main Financial Dependencies

- 6.6.1 The project is dependent upon the funding from the Glasgow City Region City Deal and from the Council.
- 6.6.2 Contingency sums of an appropriate level to the scale and complexity of the works have been calculated and applied for each contract to mitigate the risk of unforeseen on-site issues and delays due to, for example, inclement weather.
- 6.6.3 At present it is assumed that the request to the City Region for the additional funding share for the 86% of the increase in cost will be funded and if Council agrees this FBC then the capital plan will be updated to reflect this. Should the City Deal 86% share not be agreed by Cabinet, or not agreed in full, then if the Council has accepted that it may have to find up to the full additional cost, which would require to be added to the updated Council capital plan.

6.7 Financial Risks

- 6.7.1 All the Financial Risks have been set out in detail in the Risk Register attached as Appendix D. The top 3 financial risk include:
- Programme slippage incurs additional costs (Internal) (021)
 - Council Budget pressures impact upon resources available to progress project (Internal) (035)
 - Acquisition of 3rd party land by Council (032)
- 6.7.2 Any potential project cost slippages or over-runs will be managed by the Project Manager and presented to the Exxon Project Board where the Project Sponsor will have overall responsibility and report any variations to Full Council during regular City Region Deal Council update committee papers. The Exxon Project Board, which includes the Section 95 officer who leads on Council finances, will also have oversight and an important role to play in monitoring and managing the project finances. The Council will therefore have ultimate responsibility for cost over-runs beyond the budget for development of the project / City Deal approval.
- 6.7.3 The Council is VAT registered and pays and recovers VAT according to HMRC guidelines.

7 Management and Sustainability Case

7.1 Project Roles

Management Procedures

- 7.1.1 The Assurance Framework sets out a standardised governance structure for the delivery of City Deal schemes. The Council has established internal governance arrangements for the management of its City Deal project.
- 7.1.2 A dedicated Council City Deal Project Board has been established, with the authority to agree the Business Case prior to submission to the Council for approval prior to submission to the City Deal Programme Management Office. The Board has otherwise no decision-making powers but provides a mechanism for regular progress updates and dialogue on all infrastructure, employability and business and innovation strands of the City Deal programme between responsible officers and Elected Members. The City Deal Project Board reports to Council on a regular basis.
- 7.1.3 The Project Board meets monthly, or they may convene as required to review progress and address problems. It discusses strategic issues relative to the Council's City Deal project, key matters arising across the City Deal programme and emerging from the Programme Management Office and City Deal Support Groups. It also monitors the City Deal Programme Risk Register.
- 7.1.4 The project delivery team has been selected to ensure that it has all the necessary skills and expertise required to deliver the project. In addition, the support of specialist development and infrastructure consultants Stantec has been procured to help facilitate the successful and timely delivery of the project.

Project Responsibility

- 7.1.5 The Capital Investment Programme, managed by Craig Jardine, will co-ordinate the delivery of the project.
- 7.1.6 The key project roles have been allocated as follows:
- Project Sponsor: Gail MacFarlane
 - Project Manager: Patricia Rowley
- 7.1.7 The experience of the team is outlined as follows.

Gail Macfarlane, Project Sponsor

Gail has over 25 years working in local authorities with over 10 in senior management positions. A Civil Engineer with Economic Development experience Gail has led on the delivery of key transport infrastructure and regeneration projects including structures, roads and public realm works such as the Bishopbriggs Relief Road, Connecting Clydebank, and Lomond Bridge Refurbishment. Current projects include Gruggies Burn flood alleviation project, valued at £20m, and responsibility for the project delivery of the council's city deal project at the Exxon site, valued in the region of £34m.

Currently responsible for the strategic and operational delivery of Roads, Waste, Fleet and Grounds as Chief Officer for Roads and Neighbourhood Services. The role has responsibility for 415 employees and a revenue budget of £38m.

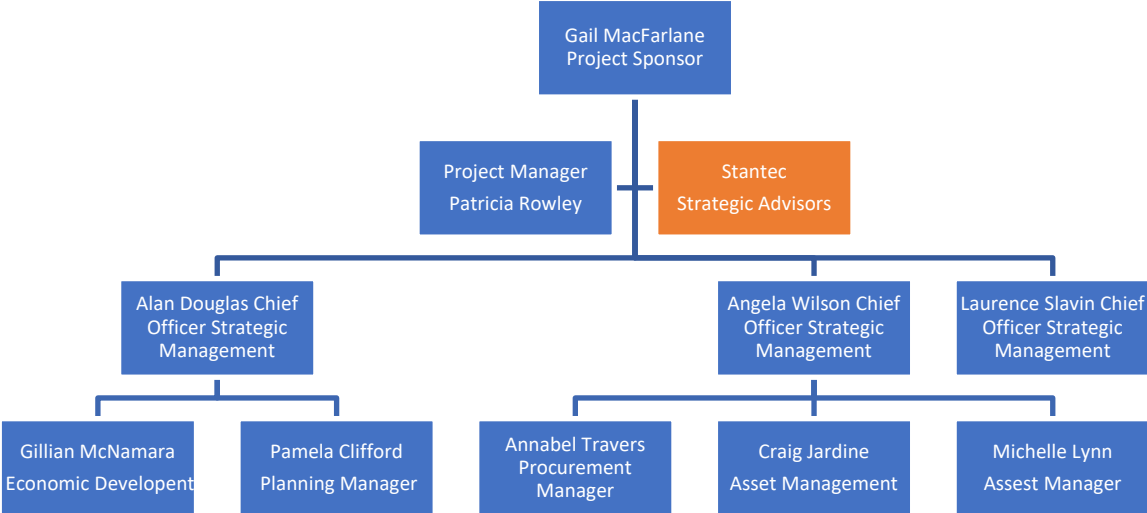
Patricia Rowley, Project Manager

Patricia is responsible for delivery and project management of key capital regeneration projects (Exxon City Deal and District Heating Network at Queens Quay) with an overall value of £60m, from business case stages through to construction and commissioning. Prior to joining the Council in 2022 Patricia was responsible for delivery and project management of multi-disciplinary major fluvial and coastal flood protection projects (Upper Garnock Flood Protection Scheme, Millport Coastal Flood Protection Scheme and Millburn Flood Scheme) from concept through to construction with an overall value of circa £46m.

7.2 Project Governance Structure

- 7.2.1 To ensure the effective delivery of City Deal, a governance model has been agreed. These governance arrangements will be driven by the Glasgow and Clyde Valley Cabinet of Council Leaders. Supporting this decision-making body will be a Chief Executive's Group, a Finance Strategy Group, a Regeneration and Economy Group and the independent Commission on Urban Growth.
- 7.2.2 A Programme Management Office (PMO), based in Glasgow City Council but funded by all Councils, will provide support, coordination, and expertise to assist delivery by the authorities themselves.
- 7.2.3 The Assurance Framework sets out a standardised governance structure for the delivery of City Deal schemes. This sets out the progression and reporting of the individual projects to the independent PMO in Glasgow, through the Chief Executive's Group to the Cabinet (which is the ultimate decision-making body for the City Deal). The Cabinet links directly with both the UK and Scottish governments and in addition will be advised on the monitoring and evaluation of the success of the City Deal programme by the Independent Commission on Urban Growth and the National Panel. In performing its role, the Cabinet will consult with the Glasgow and Clyde Valley Economic Leadership Board. As part of the implementation of this project by the Council, all guidance issued by these groups through the PMO, and through updates to the Assurance Framework and Programme Business Case, will be acted upon and where required considered in future iterations of this Business Case.
- 7.2.4 The project governance structure within the Council is shown in Figure 7-1. This highlights clear lines of responsibility and accountability for delivery of the various elements of the project.

Figure 7-1 Council Governance Structure



- 7.2.5 The Project Sponsor leads the Project Board and has overall authority for those matters delegated to officers to progress, with project monitoring and evaluation sitting with the Project Manager.
- 7.2.6 The Capital Investment Team which includes the Project Manager for the Exxon project forms part of the Local Authority Governance Project Board. They have been embedded in all aspects of the project development from Business Case development through to the design elements of the proposed works and will be the Project Manager for the Local Authority during the implementation phases of the project.
- 7.2.7 For those matters not expressly delegated to officers, the Council and its committees provide guidance and oversight. Reports on progress on the City Deal overall, including the Exxon Site Development project, are heard by the Council. As matters progress, service committees, statutory committees (principally Planning Committee), Tendering Committee and the Audit and Performance Review Committee are likely to have increasing input into the guidance and oversight of the project. The membership of the Project Board is as shown in Table 7-1.

Table 7-1 Council Project Board

Board Member	Department	Project Role
Gail MacFarlane	Head of Service Roads & Neighbourhood Delivery	Project Sponsor
Alan Douglas	Chief Officer Strategic Management	Regulatory & Regeneration
Angela Wilson	Chief Officer Strategic Management	Supply, Distribution and Property Service
Laurence Slavin	Chief Officer Strategic Management	Resources Service
Gillian McNamara	Economic Development	Economic Development Manager (inc. Monitoring & Evaluation)
Annabel Travers	Procurement Manager	Procurement Manager, (inc Community Benefits)
Craig Jardine	Asset Management	Corporate Asset Manager
Pamela Clifford	Planning Service	Planning, Building Standards & Environmental Health
Patricia Rowley	Capital Investment Team	Project Manager
Michelle Lynn	Asset Management	Assets Coordinator

7.2.8 In addition, Dougie McDonald, Infrastructure Director, Stantec attends the Project Board by invitation. Stantec was appointed following a competitive tendering process and are directly managed by the Council’s Project Manager. Stantec’s work is overseen by the Project Board. Stantec provide regular progress reports which are reviewed by the Project Manager and the Board. Instructions are agreed and issued to Stantec by the Project Manager.

7.3 Risk Management

7.3.1 All risks that could affect the successful implementation of the project have been identified and are set out in detail in the Risk Register attached as Appendix D . This includes details of risk owners and mitigation measures.

Risk Management Procedure

7.3.2 The Council has adopted a City Deal Programme Risk Management Strategy which mirrors the wider City Deal Risk Management Strategy and complements the broad principles of the Council’s Corporate Risk Management Strategy. The Council will adhere to the ‘Escalating and Reporting Structure’ as detailed in the Assurance Framework Part 3, Section 5.5. Roles and Responsibilities in relation to risk are outlined in the City Deal Risk Management Strategy. The project will be managed in a comprehensive manner consistent with the City Deal risk management requirements whilst also following internal risk management principles and procedures.

7.3.3 The West Dunbartonshire City Deal project risk register is not viewed in isolation but is proactively managed and overseen by the Project Board where it is reviewed regularly.

Environmental Risk Management

7.3.4 All Environmental Risks have been set out in detail in the Risk Register attached as Appendix D.

- 7.3.5 A Construction Environmental Management Plan has been prepared and will be submitted as part of the detailed planning application. The Construction Environmental Management Plan includes the following information/mitigation measures:
- A plan of the phasing of the works on the site;
 - Baseline levels for noise, vibration and dust, and details of any monitoring protocols that may be necessary during construction works;
 - Requirements for monitoring and record keeping;
 - Contact details during normal working hours and emergency details outside working hours;
 - The mechanism for the public to register complaints and the procedures for responding to complaints;
 - Details of construction operations highlighting any operations likely to result in disturbance and/or working hours outside the core working period, with an indication of the expected duration of key phases and dates;
 - The details of proposed routes for heavy goods vehicles travelling to and from the site;
 - Details of all works involving interference with a public road, including temporary carriageway/footpath closures, realignment and diversions;
 - Site measures/practices to address potential residential amenity issues; and
 - Mitigation measures to prevent the pollution of watercourses from surface water run-off.

Scored Assessment, Risk Likelihood, Probability and Mitigating Actions

- 7.3.6 The detailed project Risk Register has been developed to identify project risks which are scored on initial and residual risk probability and impact. Key controls and procedures, mitigating actions, the lead responsibility and the timescale for regular review for each identified risk have also been identified. Risk analysis, identification and estimation for the project have been undertaken in accordance with the methodology outlined within the City Deal Risk Management Strategy. Risk estimation has been calculated by assigning values to the probability and impact of a risk against the set guidance criteria provided. The top five risks for the project have also been identified.
- 7.3.7 Existing, escalating or new risks are recorded and monitored by the Project Board. A working issues log has been established for the project which is reviewed and updated regularly by the project manager. Monthly updates on project risks and issues are provided to the Programme Management Office through project status and issues log reporting.

Roles and Responsibilities

- 7.3.8 The Project Manager has overall responsibility for managing project risk, including keeping the project risk register and issues log up to date, regular reporting to the Project Board and to the Programme Management Office. The project manager will work closely with contract administrators during contract implementation periods to ensure that all risks and issues are identified, recorded and monitored; to identify and implement mitigation actions and to identify and record any programme and/or financial implications resulting from Early Warnings and Compensation Events.

- 7.3.9 If further management attention is required, reporting is undertaken to the relevant management team who are responsible for ensuring that appropriate action is taken on a timely basis by the appropriate responsible officers.
- 7.3.10 The Council's corporate management team comprising the Chief Executive and Chief Officers of the Council has overall responsibility for risk management and for developing a comprehensive corporate risk management strategy.

7.4 Resilience

- 7.4.1 Measures to ensure the ongoing resilience of the site to climate change and other environmental impacts are being built into the development proposals. Flood prevention measures, a sustainable urban drainage strategy, environmental mitigation and green network proposals are a fundamental component of the strategy for the site. These have been developed to accompany the detailed planning application for the site.

7.5 Greener Placemaking

- 7.5.1 The project will bring 19.10 hectares of brownfield, previously contaminated, land back into effective commercial use in the central and eastern areas of the site. Significant areas of enhanced greenspace and new, previously unattainable, public access for recreation will result from the proposals as indicated in the Masterplan. Full details of the access and green network enhancements have been developed to accompany the detailed planning application for the site.

7.6 Active and Lower Carbon Travel

- 7.6.1 Measures to encourage the use of active and lower carbon transport modes will be built into the development planning process starting with the high-level proposals in the Masterplan and becoming increasingly detailed as land-use proposals for the site become formalised. Measures to encourage sustainable travel will be incorporated into the Transport Assessment.
- 7.6.2 Through enhanced greenspace on site and provision of new public access to areas which have never been publicly accessible, significant improvements to walking and cycling opportunities should result from the proposals.
- 7.6.3 The measures to facilitate sustainable travel will be defined as proposals for the site become clearer but are likely to include such things such as support for new or amended bus routes that serve the site, provision of cycle routes, cycle parking, car share schemes, pool cars, parking permits, interest free loans for season tickets or bicycle purchases as well as the provision of shower and changing facilities on site.

7.7 Other Matters for Consideration

Subsidy Control

- 7.7.1 There are no issues anticipated in relation to Subsidy Control.
- 7.7.2 The Council has assessed the Subsidy Control risk of the Council receiving funding from the City Deal for the development of roads and other infrastructure to support delivery of the project.
- 7.7.3 The project will deliver the construction of new accesses, a new spine road and supporting infrastructure improving accessibility to the core and strategic road network and providing a direct link to the site. It will also open land, which is currently held privately, to the public.

7.7.4 The project is considered to have limited risk given that the spine road will be open to all and free of charge and when built will not favour any particular non-Council proprietor over any other party. The Council has confirmed that any third-party land required for the project will be acquired at market value. On this basis, the funding of the project is unlikely to be regarded as “selective” (i.e. it does not favour only certain undertakings) and on that basis, would not fall within the Subsidy Control rules. There is sufficient evidence held by the Council that the roads and infrastructure will provide a wider benefit to the public at large in terms of providing a connection between publicly accessible areas and the Clyde Waterfront and enhanced green networks.

7.7.5 The project is therefore strategic enabling infrastructure which unlocks development and does not benefit a single developer or landowner.

Competition

7.7.6 There are no issues anticipated in relation to competition.

Land Ownership and Compulsory Purchase Orders

7.7.7 Some parcels of land that are required to provide the infrastructure access to the site are in the ownership of third parties. The Council has either completed third party land acquisition or is at an advanced stage of negotiations with all landowners. There is no envisaged requirement to apply Compulsory Purchase Order powers to acquire the necessary land to facilitate access to the development.

7.7.8 Should it be necessary to secure the land required to construct the accesses and link road from parties unwilling to sell, the Council is confident that it possesses sufficient powers and justification for their use and appropriate authority would be sought to promote a Compulsory Purchase Order pursuant to the Council’s powers under the Roads (Scotland) Act 1984.

Third Party Arrangements

7.7.9 A Development Services Agreement (DSA) has been signed by the Council with Network Rail to cover the project’s detailed design phase. This will be updated to cover the construction period immediately prior to construction of the Western Underpass commencing. No other service agreements are anticipated.

Legal Challenge

7.7.10 No legal challenge to the project is anticipated.

Local Authority Powers

7.7.11 The Council possesses all the necessary powers to deliver this project. In some instances, the cooperation of other agencies will be required to apply their powers in the delivery of the project, including Network Rail (new Western Underpass of the railway) and Transport Scotland (new junctions on the A82). Regular consultation and partnership working with these agencies has been ongoing for several years and no difficulties in delivery are anticipated.

7.7.12 The Council will use its powers, including under the Local Government (Scotland) Act 1973 or the Roads (Scotland) Act 1984, as appropriate to deliver the project.

Planning Permission

7.7.13 There are no legal obstacles to the development of the site anticipated because of planning policy. The site is defined as a Specialised Economic Development Site in the adopted Local

Plan and allocated for industrial/business opportunities in the proposed Local Development Plan (LDP). Planning Permission in Principle (PPiP) was granted for the development of up to 44,450m² of commercial/ industrial floorspace, link road with upgraded junctions on the A82 and A814, a railway underbridge and an overbridge, landscaping, green network and public realm improvements, flood defences, drainage, transport, and utilities infrastructure including the formation of platforms for development across the site obtained for and associated Masterplan in January 2021. A detailed planning application for the infrastructure works is due to be submitted in June 2023.

Equality Impacts

- 7.7.14 An Equality Impact Assessment has been undertaken by the Council and is presented in Appendix H .

Environmental Impacts

- 7.7.15 The environmental impacts of the project have been assessed as part of the project development and planning permissions. The Council will observe all obligations under relevant environmental legislation and all appropriate measures including the requisite legal agreements, licenses and mitigation plans will be undertaken to ensure compliance with all relevant environmental legislation and planning requirements.

Transport Impacts

- 7.7.16 As the site is a new land-use development, its transport impacts and access requirements have been, and will continue to be, assessed, and appraised in accordance with Transport Scotland's Transport Assessment Guidance.
- 7.7.17 The individual transport and access requirements of each development within the site itself will be assessed and proposals put forward to ensure appropriate sustainable access through the Transport Assessment process.

7.8 Project Schedule

- 7.8.1 The current project Work Programme can be found at Appendix I .

7.9 Project Monitoring and Evaluation

- 7.9.1 The Council is fully aware of the need to demonstrate Best Value and progress towards economic impacts to adhere to the City Deal Assurance Framework. The Exxon Project Board replicates other Council major project boards including the District Heating Network and Levelling Up Fund Dumbarton Programme. For all of these Boards the Council has developed a consistent and robust monitoring and evaluation framework to ensure compliance with PMO (and other funder) requirements for performance management and has made allowance for its cost within the project budget. Monthly progress reporting on project development and delivery is provided to the Council's Project Board and to the Programme Management Office via project status reports and MA programme reports. Benefit realisation updates will also be provided on a quarterly basis to adhere with the requirements of City Deal, using the methodology set out in the Benefit Tracking Template provided within the Assurance Framework.

- 7.9.2 A project monitoring and evaluation strategy has been developed, with the objectives and expected benefits to be tracked through a Benefits Realisation Plan. Gillian McNamara (Economic Development Manager) has responsibility for this element. The Council will monitor the project through its internal management and governance processes and will deliver an interim and final evaluation report of the project following construction completion in line with the Gateway Review processes/dates as set out by the PMO.

- 7.9.3 To keep in line with the City Deal Assurance Framework Stage Gateways, it is anticipated the following evaluations will take place, as the works progress:
- City Deal Stage Gateway 1 (2024) – an initial evaluation will provide an early indication that the project is operating as planned and on-track to realise construction outcomes;
This phase will include an evaluation of the development and construction process, including an assessment of forecast vs. outturn project costs, together with reasons for variance, and will specifically report on progress with City Deal funded project elements;
 - City Deal Stage Gateway 2 (2026) – a detailed evaluation, which will consider the scheme's impacts, in the context of data gathered over a longer period, and provide a more detailed measurement as to what extent the longer-term objectives in the Benefits Realisation Plan are likely to perform against targets:
This will report on the annual monitoring reports against the Benefits Realisation Plan, contractors' and performance against community benefits. This longer timeframe also allows consideration of the impacts of wider initiatives, including counterfactual developments and measured change from the socio-economic baseline and environmental/ equalities impact assessments; and
 - City Deal Stage Gateway 3 (2028/29) – a further assessment, similar to Stage Gateway 2:
This will update the Stage 2 evaluation but will provide more evidence as to the projects ongoing progress and a snapshot of the potential longer-term impact. If required it will identify the need for more time to be allowed for all scheme benefits to be fully realised, should they not yet have been achieved.
- 7.9.4 In line with the tracking of benefits, scheme monitoring, and evaluation will be undertaken in line with the PMO's Benefits Realisation Strategy. This entails that once the FBC has been approved by Cabinet, the Council will agree the Benefits Realisation Plan with the PMO based on the project outputs reported in this FBC. The Council will be responsible for providing the PMO with project output data as will be agreed in the project benefits realisation plan. The collation of project outputs will be carried out by the PMO. The Council has commenced monitoring of project outputs during the design and will continue this during the construction of the project, including monitoring of both contractual and voluntary community benefits. The PMO will work closely with the Commission and National Panel to ensure that the project output data collected is compatible with the requirements of programme wide economic evaluation.
- 7.9.5 The expected costs of monitoring and evaluation have been built into the project's estimated costs reported as £35k up to 2035¹⁶.
- 7.9.6 In accordance with the Assurance Framework, the ongoing project monitoring and evaluation after completion of the physical project works will be managed and implemented by the Council using an in-house dedicated Project Manager supplemented by external specialist consultants as required.
- 7.9.7 Monitoring and evaluation of the Exxon project will be aligned with the City Deal PMO approach for the wider programme. Arrangements for reporting against the Benefits Realisation Plan will include:
- Establishing a baseline value for each benefit;

¹⁶ Includes provision for monitoring and evaluation of £35,000. This reflects core evaluation and some monitoring activity. Routine monitoring will be embedded in the work of project officers and West Dunbartonshire Council staff

- Establishing the primary source of data and frequency of collection;
 - Preparation of monthly/ quarterly/ annual reports providing update on progress against the baseline and targets, and submission of reports to internal Council Groups/ Committees, PMO, and external review/ evaluation; and
 - Oversight of, input to, and validation of, the key Gateway stage evaluations.
- 7.9.8 During construction, the project will be subject to fortnightly review meetings to discuss progress, programme, financial and technical matters. The hierarchy and scheduling of these meetings will be linked to the project start and will follow the frequency below:
- a four-weekly strategic review, update and management meeting. Information for this will be fed by
 - a two-weekly operational, review, update and management meeting.
- 7.9.9 Project monitoring will include review against the Risk Register, financial, performance, benefits realisation monitoring, timetabling, contractor performance, etc.
- 7.9.10 In accordance with the Assurance Framework, the scheme will be monitored, thus providing the opportunity to evaluate the scheme against set criteria, including environmental and sustainability objectives.

Strategic Assessment Framework (SAF)

- 7.9.11 At Glasgow City Region City Deal level, an assessment is required of the cumulative land-use and transport impacts of the Programme of Infrastructure projects. This will be undertaken using a Strategic Assessment Framework (SAF) managed by the PMO and operating with several themes. The Council is committed to supporting this process and providing timely inputs.

Progress Reporting

- 7.9.12 In accordance with the Glasgow City Region City Deal requirements the Council will submit 4-weekly project reports to the PMO by email including a Project Status Report and Project Plan.
- 7.9.13 In addition, quarterly project reports will be submitted to the PMO by the Council. This will include a Benefits Realisation Report, Project Risk Register, Project Issues Register and Inter-Dependency Register.
- 7.9.14 Each benefit outlined in Appendix F will be monitored on a bi-monthly basis using the methodology set out in its Benefit Tracking Template which will emerge as the Business Case is developed. The Council will be developing a suite of internal KPIs as part of its Project Controls with an early warning system for escalation.
- 7.9.15 The Council also undertakes to share best practice with other authorities and maintain a Lessons Learned Log during the project lifecycle to ensure that the experience from this project can be applied to future projects. In accordance with the requirements of the PMO the Log will include:
- aspects of the project and processes which went well;
 - aspects and processes which could have been improved;
 - details of abnormal or unexpected events or issues; and

- recommendations on how similar projects could be improved in future.
- 7.9.16 Furthermore, the Council commits to preparing a Lessons Learned Report at the end of the project or at the conclusion of a major phase of the project. This will cover the following areas:
- management and quality processes;
 - a description of abnormal events causing deviations from plans;
 - assessment of technical methods and tools used;
 - recommendations for future enhancement or modification of project management method;
 - useful measurements on how much effort was required to create the various projects; and
 - notes on effective and ineffective quality reviews and other tests.
- 7.9.17 At a project specific level, monitoring will take place of the environmental impacts of the project to determine the extent to which the sensitive environmental receptors in and around the site are impacted by the development. The methodology for undertaking this will be developed drawing upon the advice of technical experts in this field as the project progresses through detailed design.
- 7.9.18 Similarly, the economic impacts of the project will be measured to determine the extent to which forecast targets are being delivered. This will form part of the benefit monitoring described previously and will apply best practice techniques in forecasting economic impacts to ensure an accurate representation of the project performance is calculated.

Community Benefits

- 7.9.19 The scale of work involved in developing the site will generate a range of opportunities for training, work experience, apprenticeship and full-time work opportunities as well as potential for progression between them. Clarity at an early stage and consideration of recruitment mechanisms to engage the long-term or young unemployed to take up the opportunities will be critical in attracting recruits to the project. Offering clear guidance to contractors as to what their contract bid may contain, as well as any support they may expect in delivery e.g., co-ordination of recruitment under the community benefit programme, pre-employability programmes ahead of site work to meet contract schedules, etc. will be provided. This will encourage delivery to targets set in the Benefits Realisation Plan and, in showing that the practical concerns of contractors have been considered in advance, encourage high quality contractors to the opportunity.
- 7.9.20 As shown in Table 7-1 Annabel Travers, Procurement Manager, will be responsible for community benefits tracking.
- 7.9.21 A City Deal Community Benefits Strategy has been approved by the Glasgow City Region Cabinet and all the Council City Deal procurement processes will comply with this and seek to maximise community benefits. Monitoring of community benefit outcomes will be undertaken as part of specific contract management processes and reported to the PMO as part of the contract reporting obligations.
- 7.9.22 Community benefits can include a wide range of social, environmental, and economic initiatives which are secured as part of a public-sector procurement exercise. Often the most tangible benefits are those secured through targeted employment and support for small and medium enterprises.

7.9.23 Community Benefit outcomes for the project will be linked to West Dunbartonshire Council's strategic objectives for 2022-2027 and include:

- our area has the infrastructure for sustainable and inclusive growth where businesses can flourish;
- our partnerships will support economic development to deliver increased prosperity for our area.

7.9.24 The Glasgow City Region Strategy and Council policies have been used, proportionately, to target community benefits in the procurement of external supporting resources. All relevant Consultant appointments include contractual obligations to provide relevant community benefits. The community benefits already committed under the contracts already procured have been reported to the PMO and attributable to this project include the work placements, school visits, SME and 3rd Sector mentoring, careers events and structured training. Table 7-2 below sets out the anticipated minimum community benefits from delivery of the project.

Table 7-2 Anticipated Minimum Community Benefits

Community Benefit	Number
New Entrant – no relevant experience (TRE02)	2
New Entrant – Graduate (TRE03)	2
New Entrant – Apprenticeship (TRE04)	1
Completed Apprenticeship (TRE05)	1
Work Experience Placement (16+ Years of Age) (TST01)	3
Work Experience Placement (14 - 16 years of age) (TST02)	2
School Mentoring or Enterprise Programme (TST06)	4
S/NVQ (or equivalent) for Graduates (VTQ03)	1
Vocational Certification (VTQ05)	1
Supply chain briefing with SMEs including Micro-Businesses (SCD01)	2
Business Mentoring for an SME (SCD02)	1

7.10 Use of Specialist Advisors

7.10.1 Over the past two years, the Exxon Project Board has considered and approved the procurement of works. A Lead Consultant contract was awarded in March 2015 and updated in October 2016. The latter was procured as a direct award via the South Lanarkshire Professional Services framework agreement which came to an end in June 2022. Further, a Delivery Agent for Elements of the Exxon Site Development was appointed in May 2022 via the Scotland Excel Engineering and Technical Consultancy framework agreement.

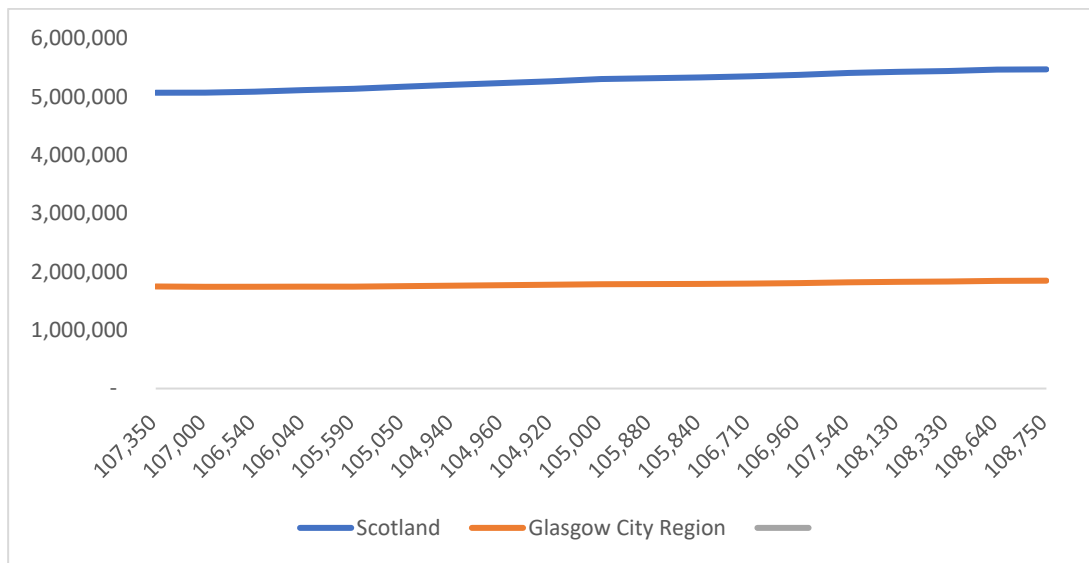
7.10.2 Other specialist survey contracts have been placed to support the development of the project.

Appendix A Socio-Economic Baseline

A.1 Demographics

West Dunbartonshire’s population is estimated to be around 88,300 according to 2020 mid-year figures. This is approximately 5% of the overall population within the Glasgow City Region. In contrast to both the City Region and national trends, West Dunbartonshire’s population has been decreasing since 1987. An index of population growth is shown in Figure A.1 below.

Figure A.1: Index of Population Growth

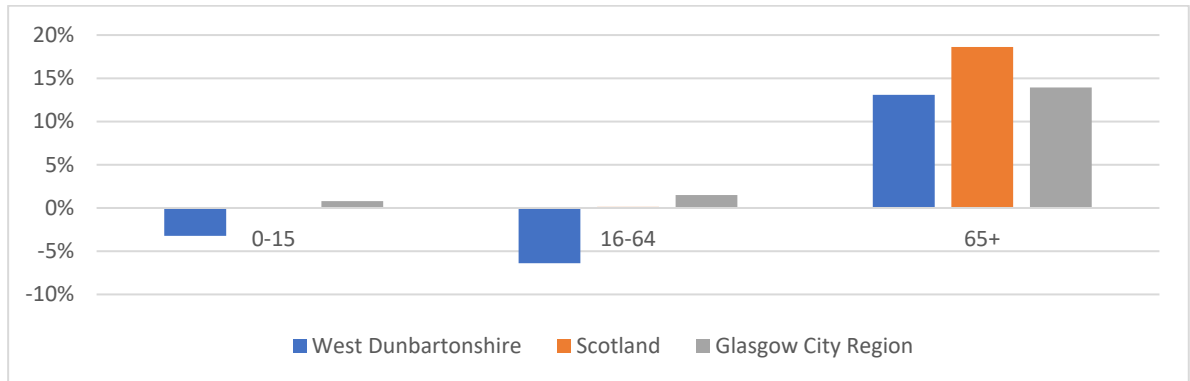


Furthermore, there has been a substantial demographic shift within the population structure of West Dunbartonshire. The 0-15 age group has declined by 10.5% since 2001, significantly above the decline of 0.9% for the Glasgow City Region and 1.1% increase for Scotland. Additionally, the working age population (16-64) has also decreased in West Dunbartonshire by 8.7% from 2000-2020.

This contrasts with both the Glasgow City Region and national trends, where the 16-64 age group has increased by 4.3% and 4.1% respectively over the same period. Finally, the 65+ age group has increased by 14.4% in West Dunbartonshire, and this is below the City Deal Region and national figures of 20.1% and 31.2% respectively¹⁷. Figure A.2 shows age disaggregates of demographic changes in the three aforementioned areas (2011-2020).

¹⁷ Mid-Year Population Estimates

Figure A.2: Changing Age Structure



Source: NRS, Mid-year population estimates change 2011-2020.

These trends indicate that West Dunbartonshire is struggling to attract or retain the key demographic groups that contribute to the economic vitality of the area. As a result, the full potential of the region is not able to be realised under present conditions.

A.2 Macroeconomic Performance

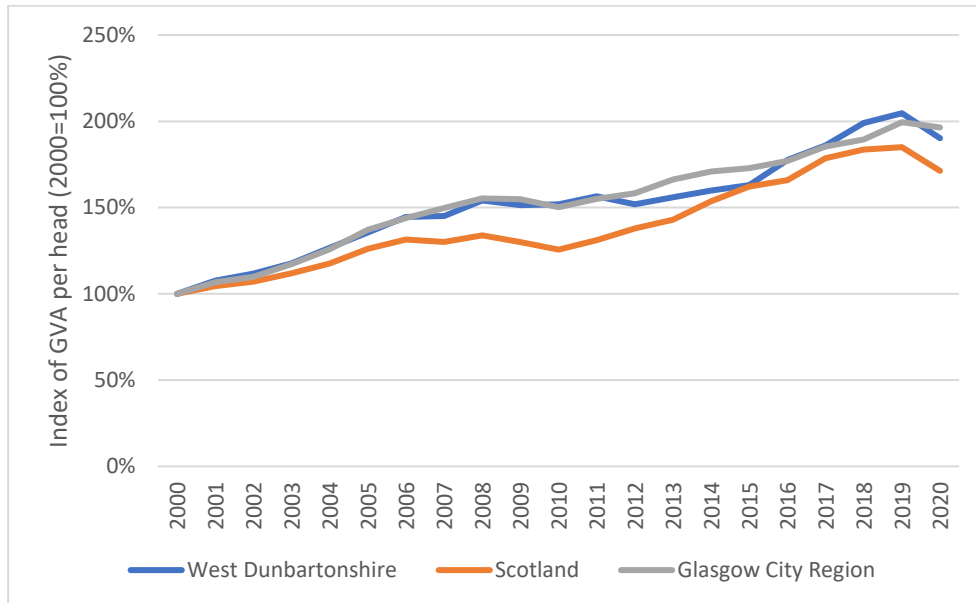
Gross Value Added

Gross Value Added (GVA) is a key measure of wealth creation within an economy and represents the value of goods and services, less the cost of the inputs to produce them. In 2020, the economy of West Dunbartonshire was worth some £1.78bn, 1.23% of the whole Scotland economy and approximately 4.39% of the Glasgow City Region¹⁸ economy¹⁹. An index of GVA growth is shown in Figure A.3 below.

¹⁸ The Glasgow City Region City includes the eight local authorities East Dunbartonshire, West Dunbartonshire, Glasgow City, Inverclyde, East Renfrewshire, Renfrewshire, North Lanarkshire and South Lanarkshire.

¹⁹ Regional GVA(I) by local authority in the UK, ONS.

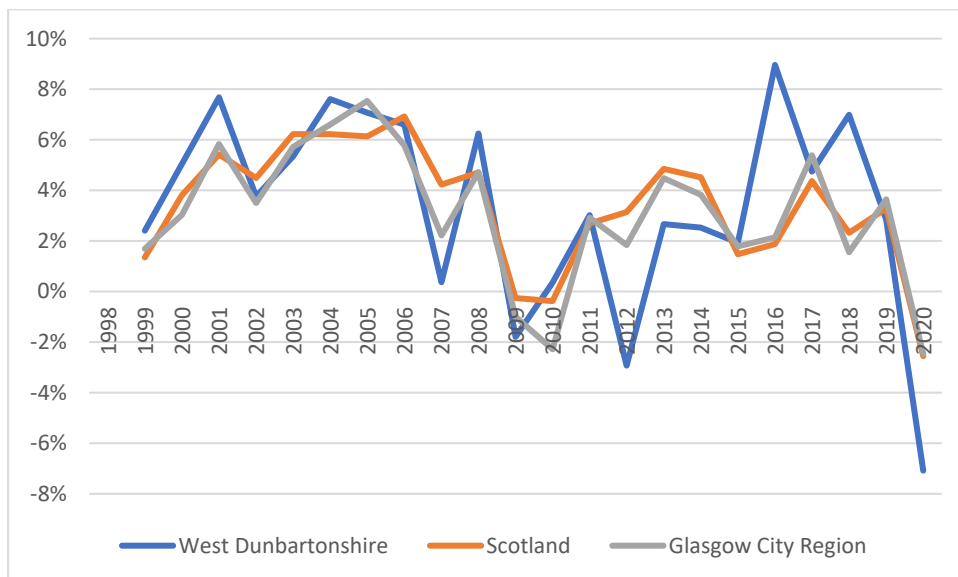
Figure A.3: Index of GVA growth (1999-2020)



Source: Regional GVA(I) by local authority in the UK, ONS.

Figure A.4 below shows the volatility of the annual growth rate. The West Dunbartonshire economy has grown on average by 3.38% per year since 2000. Until 2019, the growth rate was 3.88%, however, the COVID-19 pandemic caused a drop in GVA by 7.08% in 2020 alone. The average growth per year declined from 5.69% to 2.06% after 2007 and the West Dunbartonshire area experienced a weaker growth compared to both the Glasgow City Region and national averages. A breakdown of GVA growth is given in Table A.1.

Figure A.4: GVA Per Annum Growth Rate (1999-2020)



Source: Regional GVA(I) by local authority in the UK, ONS.

Table A.1: GVA Growth

Area	Average growth per year		
	2000 – 2006	2007 - 2015	2016-2020
West Dunbartonshire	6.16%	1.38%	3.29%
Glasgow City Region	5.60%	2.77%	1.86%
Scotland	5.43%	2.06%	2.05%

Source: *Regional GVA(I) by local authority in the UK, ONS.*

GVA per head of population is a way of viewing the relative performance of the local economy within the national picture. It is a measure of how much output is being produced per person living within the economy irrespective of whether those individuals are working or not; it is therefore a reflection of the wealth of an area rather than the productivity of its workers.

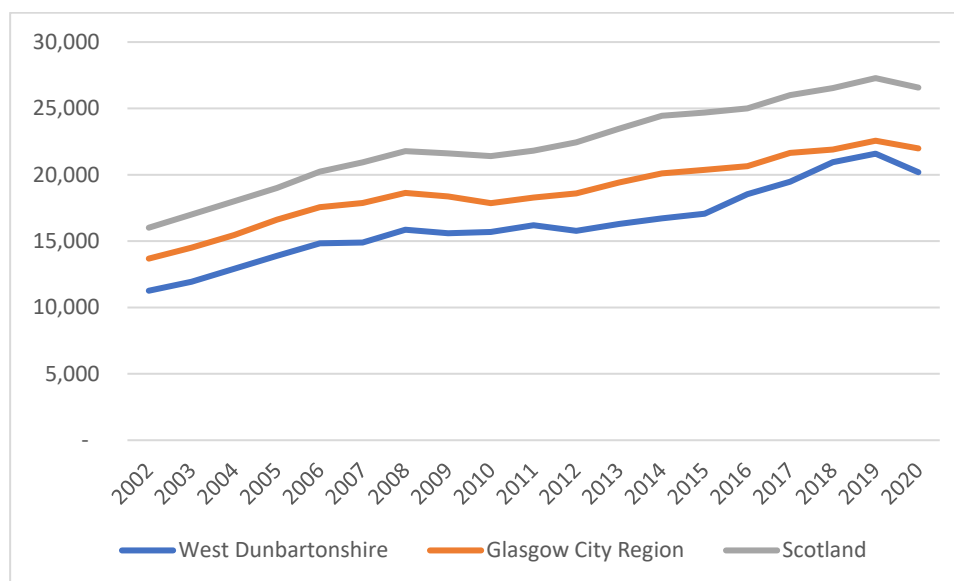
As shown in Table A.2 and Figure A.5 below, in 2020, GVA per head in West Dunbartonshire stood at £20,195, below the Glasgow City Region and national averages of £21,984 and £26,573 respectively. Analysis of the data also shows that after the Global Financial Crash (GFC) in 2008 GVA per head struggled to recover. However, between 2015 and 2016 GVA per head increased by 8.63% driven primarily by GVA and a relatively static population, indicating that there was significant commercial growth in the area over that period.

Table A.2: GVA per capita

Area	GVA per head (£k)		Average growth per year		
	2015	2020	2003 – 2006	2007 - 2015	2016-2020
West Dunbartonshire	17,067	20,195	7.13%	1.60%	3.57%
Glasgow City Region	20,366	21,984	6.44%	1.68%	1.57%
Scotland	24,688	26,573	6.03%	2.25%	1.51%

Source: *Regional GVA(I) by local authority in the UK, ONS.*

Figure A.5: Change in GVA per Head of Population



Source: Regional GVA(I) by local authority in the UK, ONS.

Sectoral Overview

Table A.3 below shows the change in sector contribution to total GVA in West Dunbartonshire over the period 2015 to 2020. Manufacturing (production) remains the largest GVA contributor to the area's economy, accounting for 18.38% of the total generated.

Table A.3: GVA generated by sector, West Dunbartonshire

Sector	2015		2020		Change
	Total GVA (£m)	Proportion of total	Total GVA (£m)	Proportion of total	
Production sector	329	21.53%	328	18.38%	-0.30%
Construction	55	3.60%	42	2.35%	-23.64%
Wholesale and retail trade; repair of motor vehicles	140	9.16%	139	7.79%	-0.71%
Transportation and storage	72	4.71%	93	5.21%	29.17%
Accommodation and food service activities	39	2.55%	32	1.79%	-17.95%
Information and communication	34	2.23%	31	1.74%	-8.82%
Financial and insurance activities	108	7.07%	223	12.49%	106.48%
Real estate activities	123	8.05%	123	6.89%	0.00%
Professional, scientific and technical activities	47	3.08%	58	3.25%	23.40%
Administrative and support service activities	33	2.16%	30	1.68%	-9.09%
Public administration and defence	182	11.91%	250	14.01%	37.36%

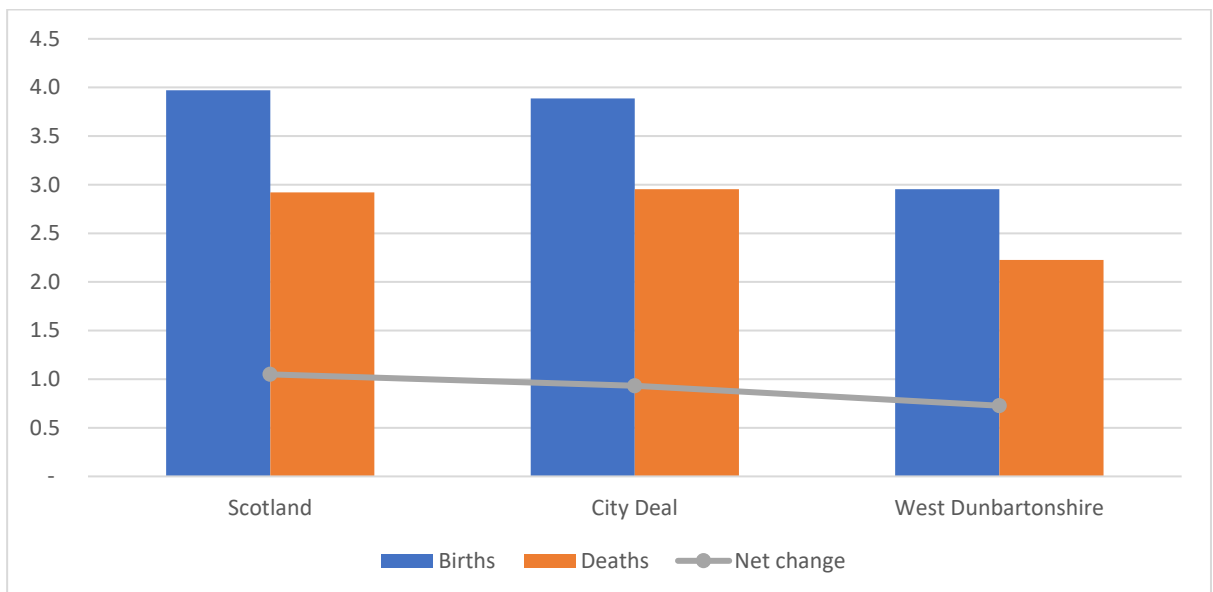
Sector	2015		2020		Change
	Total GVA (£m)	Proportion of total	Total GVA (£m)	Proportion of total	
Education	112	7.33%	128	7.17%	14.29%
Human health and social work activities	206	13.48%	266	14.90%	29.13%
Arts, entertainment and recreation	19	1.24%	20	1.12%	5.26%
Other service activities	28	1.83%	20	1.12%	-28.57%
Activities of households	1	0.07%	2	0.11%	100.00%
Total	1,528			1,785	

Source: Annual Business Survey

Business Demography

In 2016, there were around 2,025 active companies in West Dunbartonshire²⁰. The number of active businesses increased by around 18% between 2010 and 2016; slightly higher than the increase in the City Region (17%) and Scotland (15%). In 2016, there was a net gain of 0.73 businesses (per 1,000 population) in the area compared to 0.93 and 1.05 (per 1,000 population) for the Glasgow City Region and Scotland as shown in Figure A.6 below.

Figure A.6: Enterprise Births, Deaths and Net Change per 1000 Population



Source: ONS Business Demography, 2016

A.3 Labour Market Trends

Economic Activity

Economic activity describes those of working age who are either employed or unemployed but seeking work. West Dunbartonshire residents are more economically active (77.0%) than the

²⁰ ONS Business Demography, 2016

national average (77.2%) and more than those of the Glasgow City Region (76.6%)²¹. This trend is mirrored in employment rates, shown in Table A.4 below.

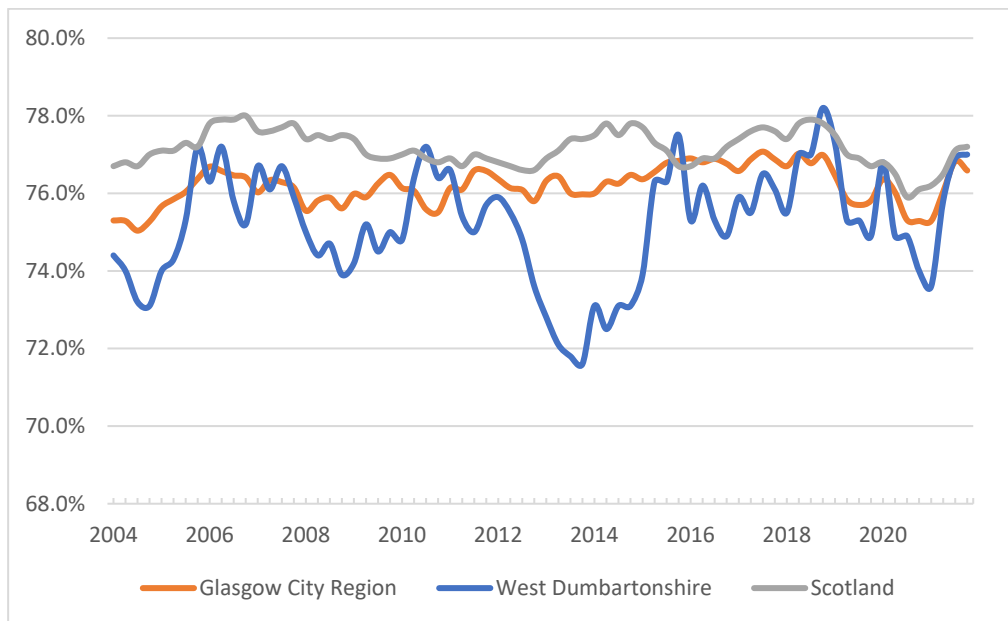
Table A.4: Economic Activity, September 2021

	Economic Activity	Employment
West Dunbartonshire	77.0%	75.2%
City Region	76.6%	74.5%
Scotland	77.2%	74.5%

Source: Annual Population Survey

The economic activity rate in West Dunbartonshire has varied with a greater frequency and magnitude than both the City Region and national rates. Following 2012, the economic activity rate in West Dunbartonshire dipped significantly, before briefly rising to above the national average. This can be seen in Figure A.7 below.

Figure A.7: Economic Activity, 2004-2018



Source: Annual Population Survey

As shown in Table A.5, the total number of employee jobs (i.e. excluding self-employed, government supported trainees and HM Forces) in West Dunbartonshire was around 33,000 in 2017.

²¹ Annual Population Survey

Table A.5: Total Employee Jobs

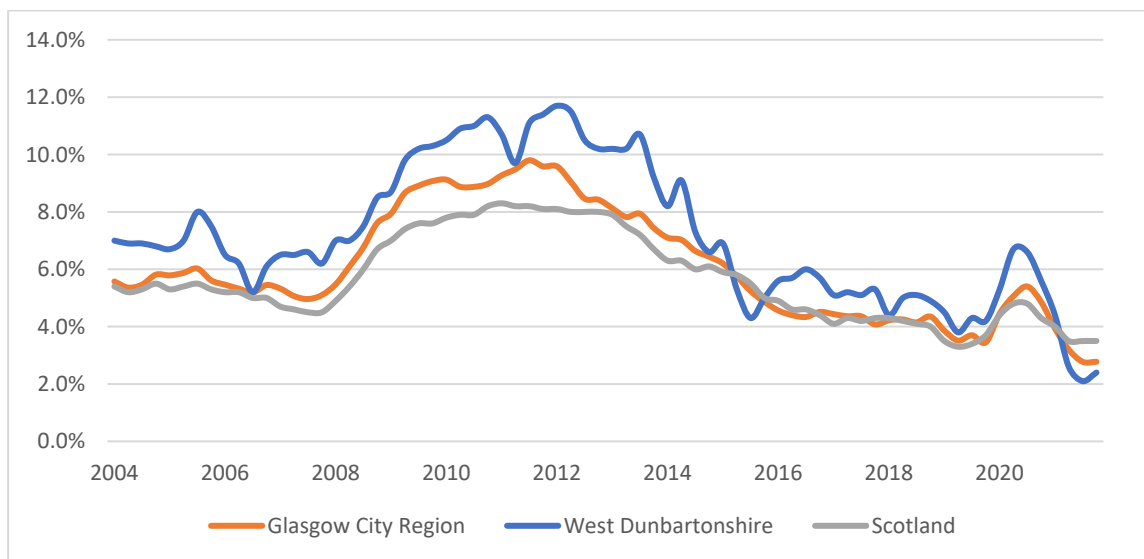
Total Employee Jobs	2021 Count (000s)	Change 2015-2021		Trend
		Absolute (000s)	%	
West Dunbartonshire	33	+2.0	+6.45%	Increasing
Glasgow City Region	867	+ 28.3	+3.37%	Increasing
Scotland	2,520	+58	+2.36%	Increasing

Source: Business Register and Employment Survey

Unemployment

Figure A.8 shows the proportion of the working age population who are unemployed. The change in the proportion unemployed in West Dunbartonshire is broadly similar to the regional and national situation. Currently, the unemployment rate for West Dunbartonshire is at 2.4% and is lower than both the Glasgow City Region and Scotland averages of 2.6% and 3.5% respectively²².

Figure A.8: Job Seekers Allowance Claimant Rate



Source: Annual Population Survey

Employment Profile

Table A.6 below shows employment by sector across West Dunbartonshire, the Glasgow City Region, and Scotland. Employment in West Dunbartonshire is broadly reflective of the wider economic landscape, i.e. most people are employed in the public sector (public administration, education and health), wholesale, retail and trade, and financial and business services (finance & insurance, property, business administration and support, and professional, scientific and technical positions).

²² Annual Population Survey, 2018.

Table A.6: Employment by Sector, 2022

Sector	West Dunbartonshire	Glasgow City Region	Scotland
Agriculture, forestry & fishing (A)	0.7%	0.8%	3.4%
Mining, quarrying & utilities (B,D and E)	0.9%	1.4%	2.4%
Manufacturing (C)	6.6%	6.7%	6.8%
Construction (F)	3.7%	6.5%	6.0%
Motor trades (Part G)	1.3%	1.8%	1.7%
Wholesale (Part G)	1.3%	2.3%	2.5%
Retail (Part G)	11.8%	11.6%	10.0%
Transport & storage (inc postal) (H)	3.7%	4.4%	4.1%
Accommodation & food services (I)	7.4%	6.8%	7.5%
Information & communication (J)	1.0%	2.7%	3.0%
Financial & insurance (K)	5.9%	2.6%	2.9%
Property (L)	1.0%	1.8%	1.5%
Professional, scientific & technical (M)	2.9%	5.5%	6.4%
Business administration & support services (N)	6.6%	8.4%	7.7%
Public administration & defence (O)	10.3%	7.3%	6.3%
Education (P)	8.8%	9.3%	8.3%
Health (Q)	20.6%	15.9%	15.3%
Arts, entertainment, recreation & other services (R,S,T and U)	4.4%	4.7%	4.2%

Source: Annual Population Survey

An occupational profile of West Dunbartonshire, the Glasgow City Region, and Scotland is shown in Table A.7 below. West Dunbartonshire exhibits a lower proportion of “Highly Skilled” occupations (42%) than the Glasgow City Region (48%) and Scotland as a whole (49%).

Table A.7: Occupational Profile, 2021

Occupation	West Dunbartonshire	City Region	Scotland
Managers, directors and senior officials	6%	8%	8%
Professional occupations	20%	25%	26%
Associate professional and technical occupations	17%	15%	15%
Highly Skilled	42%	48%	49%
Administrative and secretarial occupations	13%	11%	10%
Skilled trades occupations	9%	8%	9%
Caring, leisure and other service occupations	15%	9%	9%
Semi-Skilled	37%	27%	27%
Sales and customer service occupations	6%	9%	8%
Process, plant and machine operatives	5%	6%	6%
Elementary occupations	11%	10%	10%
Lower-skilled	21%	24%	23%

Source: Annual Population Survey

Education and Skills

Table A.8 below shows the level of qualification of working age residents of West Dunbartonshire, the Glasgow City Region, and Scotland. Although reasonably well educated, on average, the residents of West Dunbartonshire are less qualified than the residents in the City Region and nationally. The proportion of people with no qualifications in the area (14.4%) is slightly higher than that in the Glasgow City Region area (9.9%) and significantly higher than that in Scotland (7.8%).

Table A.8: Qualifications held by working age population

	West Dunbartonshire	Glasgow City Region	Scotland
NVQ4+	36.0%	47.7%	50.0%
NVQ3	53.3%	63.6%	64.8%
NVQ2	68.4%	76.8%	79.6%
NVQ1	78.7%	83.9%	86.4%
Other Qualifications	7.0%	6.2%	5.8%
No Qualifications	14.4%	9.9%	7.8%

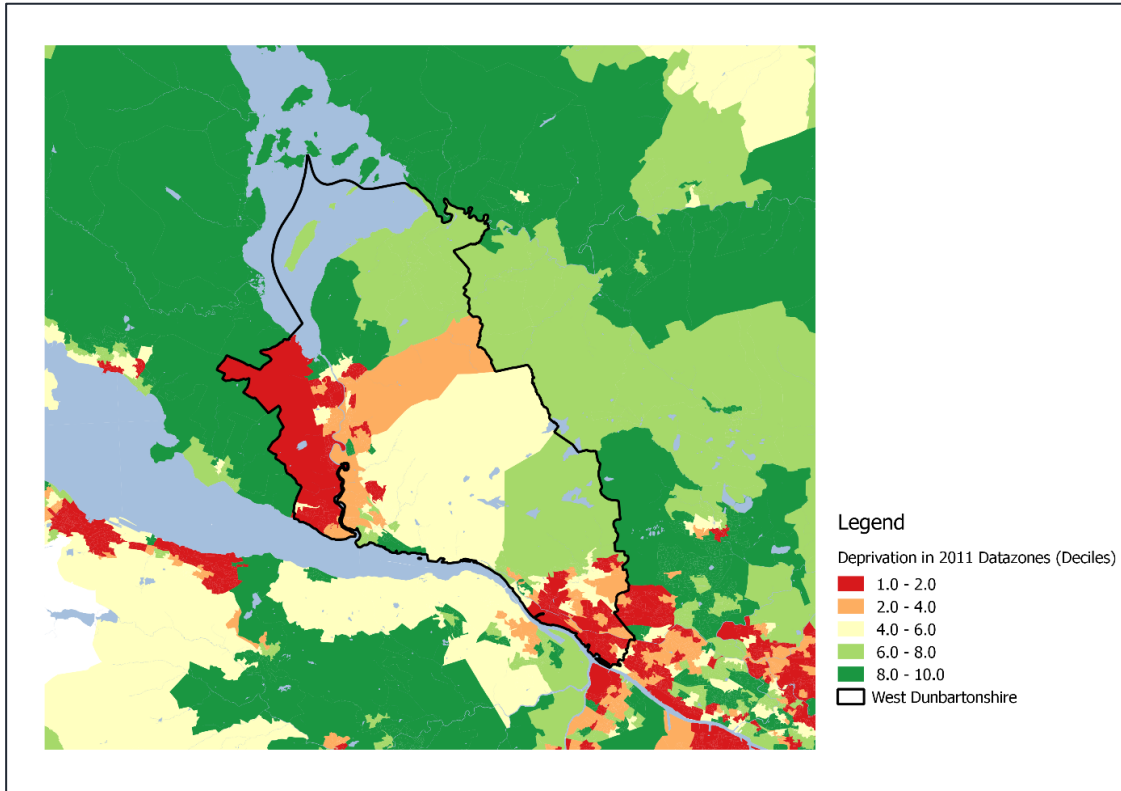
Source: Annual Population Survey

More details on levels of education and skills within West Dunbartonshire can be gained by examining the SIMD Education Domain. This domain measures the performance of SOAs in terms of:

- School pupil absences;
- Pupil performance on SQA at stage 4;
- Working age people with no qualifications;
- 17-21 year olds enrolling into higher education; and
- People aged 16-19 not in education, employment or training.

Figure A.10 below shows the geographic distribution of educational deprivation within West Dunbartonshire. Areas of darker shading represent areas which suffer from more severe education deprivation. This is primarily concentrated in urban areas.

Figure A.10: SIMD Education Domain



Source: SIMD, 2016

A.4 Income

Earnings

Median gross weekly pay of full-time employees in West Dunbartonshire in 2022 were £61623. This is the lowest of all local authorities which comprise the Glasgow City Region and is lower than the Scottish median of £640. A detailed breakdown of median and mean earnings is shown in Table A.9 below.

²³ Annual Survey of Hours and Earnings, 2022.

Table A.9: Gross weekly pay of full-time employees (£), 2022

	Median	Mean
East Dunbartonshire	745	899
East Renfrewshire	805	978
Glasgow City	634	719
Inverclyde	634	694
North Lanarkshire	657	705
South Lanarkshire	635	721
Renfrewshire	653	737
West Dunbartonshire	616	691
Scotland	640	732

Source: Annual Survey of Hours and Earnings, 2022.

Deprivation

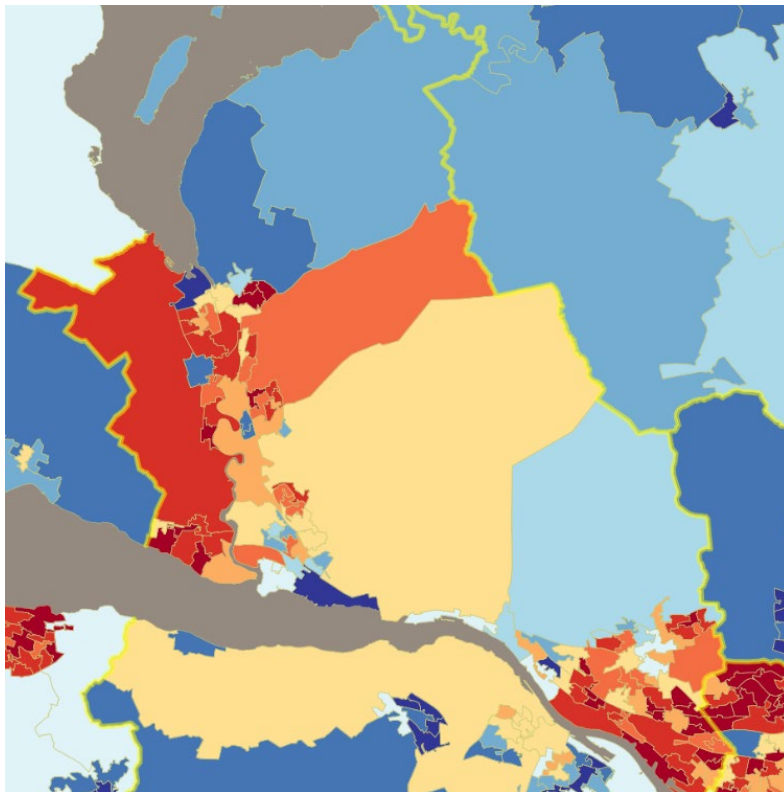
The latest available statistics indicate that in June 2018 approximately 1000 individuals were unemployed in West Dunbartonshire. This is equivalent to an unemployment rate of 2.4%, lower than both the City Region (2.7%) and Scotland (3.5%)²⁴.

The 2016 Scottish Index of Multiple Deprivation (SIMD) provides the most recent assessment of deprivation at district and super output area (SOA) across Scotland. The index is compiled using seven deprivation ‘domains’ including income, employment, health, education, skills and training, access to housing and services and geographic access and crime.

Figure A.11 below shows that although the overall levels of deprivation in West Dunbartonshire are relatively low, there are a few SOAs within the 10% worst performing areas nationally. More specifically, 21 SOAs in the area that represent approximately 16.8% of the total and cover a population of 14,964 people. These are located mainly to the south of the area around Clydebank, Dalmuir and to the north and north-west near Balloch and Dumbarton.

²⁴ Annual Population Survey, 2022

Figure A.11: Scottish Index of Multiple Deprivation (2020)



Source: SIMD, 2016.

Appendix B Previous Council Project Experience

Project Title and Description	Value	Delivery lead and year
<p>West Dunbartonshire Schools – PPP Project</p> <p>Delivery of the Council Schools PPP Project in partnership with private sector partner.</p> <p>The in-house team project managed the project of the delivery of 3 new secondary schools and 1 new primary and early education centre. This project was delivered on time and on budget.</p>	£110.00million	Council Team including Capital Investment Projects Team, Commercials led by Legal Services. 2006 - 2010
<p>Queens Quay District Heating Centre and Network Extension</p> <p>Delivery of the Energy Centre in 2020 including first phase of connections in Queens Quay in 2021, additional connections to the Town Hall/Library and social rented flats in 2022. Design work for extension to the Golden Jubilee is underway</p>	£31 million	Council Team including Regeneration and Legal with Project Management by Capital Investment Team. 2020-ongoing
<p>Bonhill & Goldenhill Primary Schools Project</p> <p>Delivery of 2 new primary schools through a traditional procurement route.</p> <p>The in-house team project managed the project of this amalgamated primary school contract using a consultant design team.</p>	£13.00million	Council Team including Capital Investment Projects Team, Commercials led by Legal Services. 2008 - 2011
<p>Dumbarton Academy Schools Project</p> <p>Delivery of a new Dumbarton Academy through a Design and Build Contract.</p> <p>The in-house team project managed the project consisting of this replacement secondary school contract using a consultant design team.</p>	£17.00million	Council Team including Consultancy Services, Commercials led by Legal Services. 2010 – 2013
<p>Bellsmyre Schools Campus, Dumbarton</p> <p>Delivery of a new co-located primary and early years' campus through a Design and Build Contract in partnership with Hub West Scotland.</p> <p>The in-house team project managed the project of this co-located primary school contract using a consultant design team.</p>	£10.65million	Council Team including Capital Investment Projects Team, Commercials led by Legal Services. 2013 - 2016
<p>Vale of Leven Workshops, Alexandria</p>	£1.95million	Council Team including Capital Investment Projects Team and

Project Title and Description	Value	Delivery lead and year
<p>Delivery of a new commercial workshop development in Vale of Leven Industrial Estate, Alexandria. This project was 50% funded by Scottish Government.</p> <p>The in-house team project managed this development in partnership with Hub WEST Scotland.</p>		<p>Regeneration, Commercials led by Legal Services. 2013 - 2015</p>
<p>Kilpatrick ASN Secondary School</p> <p>Delivery of a new Additional Support Needs Secondary School and Early Years campus through a Design and Build Contract in partnership with Hub West Scotland.</p> <p>The in-house team project managed the project of this ASN school contract using a consultant design team.</p>	<p>£10.49million</p>	<p>Council Team including Capital Investment Projects Team, Commercials led by Legal Services. 2013 - 2016</p>
<p>New O.L.S.P High School</p> <p>Delivery of a new Secondary School and campus through a Design, Build, Finance and Maintain Contract in partnership with Hub West Scotland and Scottish Future Trust.</p> <p>The in-house team project managed the project of this school contract using a consultant design team.</p>	<p>£25.9million</p>	<p>Council Team including Capital Investment Projects Team, Finance and Commercials led by Legal Services 2013 - 2017</p>
<p>New Balloch Schools Campus</p> <p>Delivery of a new co-located primary and early years' campus through a Design and Build Contract in partnership with Hub West Scotland.</p> <p>The in-house team project managed the project of this co-located primary school contract using a consultant design team.</p>	<p>£16.8million</p>	<p>Council Team including Capital Investment Projects Team, Commercials led by Legal Services 2015 - 2018</p>
<p>Office Rationalisation Programme</p> <p>Rationalisation of office space by 53% to provide modern and fit for purpose working environments to support enhance service delivery and achieve revenue savings.</p> <p>The in-house team project managed the programme using a consultant design teams in partnership with Hub West Scotland</p>	<p>£22.4million</p>	<p>Council Team including Capital Investment Projects Team, Commercials led by Legal Services 2014 - 2018</p>
<p>New Clydebank Leisure Centre</p> <p>Delivery of a new leisure centre in Clydebank through a Design and Build Contract in partnership with Hub West Scotland.</p> <p>The in-house team project managed the programme using a consultant design teams in partnership with Hub West Scotland</p>	<p>£23.81million</p>	<p>Council Team including Capital Investment Projects Team and Neighbourhood Services, Commercials led by Legal Services 2014 - 2016</p>

Project Title and Description	Value	Delivery lead and year
<p>Dumbarton Care Home</p> <p>Delivery of a new Care Home through a Design and Build Contract in partnership with Hub West Scotland.</p> <p>The in-house team project managed the programme using a consultant design teams in partnership with Hub West Scotland</p>	<p>£13.37million</p>	<p>Council Team including Capital Investment Projects Team, Commercials led by Legal Services.</p> <p>2014 - 2016</p>
<p>Clydebank Care Home</p> <p>Delivery of a new Care Home through a Design and Build Contract in partnership delivered with in-house project resource.</p>	<p>£14.50million</p>	<p>Council Team including Capital Investment Projects Team, Commercials led by Legal Services.</p> <p>2018 - 2021</p>
<p>District Heat Energy Centre, Queens' Quay</p> <p>Delivery of a new District Heating Energy Centre and associated infrastructure delivered with in-house project resource working in partnership with external consultant/contractor team.</p>	<p>£22.50million</p>	<p>Council Team including Regeneration and Legal with Project Management by Capital Investment Team.</p> <p>2017 - 2021</p>
<p>New Renton Schools Campus</p> <p>Delivery of a new co-located primary and early years' campus through a Design and Build Contract in partnership with Scottish Procurement Alliance Framework.</p> <p>The in-house team project managed the project of this co-located primary school contract using a consultant design team.</p>	<p>£15.1million</p>	<p>Council Capital Projects Team.</p> <p>2019 - 2022</p>
<p>Dumbarton Town Centre Regeneration</p> <p>16 Church Street – award winning repurposing and extension of listed building to accommodate Council staff in a town centre Location</p>	<p>£15.4 million</p>	<p>Council Capital Projects Team</p> <p>2017-2018</p>
<p>Town Centre Regeneration</p> <p>Various public realm, heritage and connectivity projects to enhance our three town centres, utilising Town Centre Fund, Place Based Improvement Programme and Council capital funding</p>	<p>£2.4 million</p>	<p>Council Regeneration Team</p> <p>2020-2023</p>
<p>Dumbarton Town Centre Levelling Up Programme</p>	<p>£21.1 million</p>	<p>2022 -ongoing</p>

Project Title and Description	Value	Delivery lead and year
Delivery of 3 inter-related town centre regeneration projects including refurbishment of a listed building, redevelopment of obsolete shopping units and a public realm and connectivity project		

Appendix C Environmental Impact Assessment

Exxon Site Development Project

Environmental Statement: Non-Technical Summary Pt1

September 2019

Glasgow City Region City Deal
Project Submission from West Dunbartonshire Council

West
Dunbartonshire
COUNCIL



Image credit: Guthrie Aerial Photography

Document Control Sheet

Project Name: Exxon Site Development Project
Project Ref: 30953
Report Title: Environmental Statement Non-Technical Summary
Date: September 2019

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For and on behalf of Stantec UK Ltd				

Revision	Date	Description	Prepared	Reviewed	Approved
V1	April 2019	Draft for Client Comment	Various	MJ	DMcD
V2	April 2019	Draft including Ecology summary for Client Comment	Various	DS	DMcD
V3	September 2019	Final Draft for WDC Regeneration	Various	DS	DMcD
V4	April 2020	Final for WDC Planning (with Stantec branding)	Various	DS	DMcD

This report has been prepared by Stantec UK Limited ('Stantec') on behalf of its client to whom this report is addressed ('Client') in connection with the project described in this report and takes into account the Client's particular instructions and requirements. This report was prepared in accordance with the professional services appointment under which Stantec was appointed by its Client. This report is not intended for and should not be relied on by any third party (i.e. parties other than the Client). Stantec accepts no duty or responsibility (including in negligence) to any party other than the Client and disclaims all liability of any nature whatsoever to any such party in respect of this report.

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Contents

1	Introduction.....	1
1.1	Introduction.....	1
1.2	The EIA, ES and Related Documents.....	1
1.3	Project Team.....	1
2	Site and Surrounding Area.....	3
2.1	The Site.....	3
2.2	The Surrounding Area.....	5
2.3	Cumulative Development.....	5
3	The Proposed Development.....	7
3.1	Overview.....	7
3.2	Key Physical Characteristics.....	7
3.3	Key Operational Characteristics.....	9
3.4	Materials, Natural Resource Usage, Emissions and Waste.....	10
3.5	Consideration of Alternatives.....	10
4	Assessment Methods.....	11
4.1	Overview of EIA.....	11
4.2	EIA Screening and Scoping.....	11
4.3	Consultation.....	12
4.4	EIA Methodology.....	12
5	Likely Significant Effects.....	14
5.1	Overview.....	14
5.2	Ground Conditions.....	14
5.3	Water, Hydrology & Flood Risk.....	16
5.4	Ecology20.....	
5.5	Traffic & Transport.....	21
5.6	Air Quality.....	22
5.7	Noise & Vibration.....	22
5.8	Landscape & Visual.....	23
5.9	Archaeology & Heritage.....	25
5.10	Environmental Interactions.....	26
6	Mitigation and Monitoring Requirements.....	27
6.2	Proposed Mitigation Measures.....	27
6.3	Management Plans.....	32
6.4	Proposed Monitoring Arrangements.....	32

Tables

Table 2.1: Relevant Cumulative Developments.....	6
Table 3.1: Internal Subdivisions.....	8
Table 3.2: Proposed Development Quantum - Commercial and Light Industrial.....	9
Table 4.1: Generic Significance Criteria.....	12
Table 6.1 – Summary of Proposed Mitigation Measures.....	28

1 Introduction

1.1 Introduction

- 1.1.1 This document is the Non-Technical Summary (NTS) of an Environmental Statement (ES) which has been prepared by Stantec UK Ltd (Stantec)¹ to support land acquisition by West Dunbartonshire Council (WDC) and accompany an application for planning permission in principle (PPiP) in respect of the *Exxon Site Development Project* ('the proposed development') on land at and adjacent to the former Esso Oil Terminal, Bowling ('the site') in West Dunbartonshire.
- 1.1.2 West Dunbartonshire Council (WDC) are also the relevant determining authority for the PPiP application, and in this role are hereby referred to as 'the Council' throughout this NTS.
- 1.1.3 The ES has been prepared by Stantec on behalf the Applicant, with input from technical assessment specialists as detailed within **ES Volume 1**.

1.2 The EIA, ES and Related Documents

- 1.2.1 This NTS provides a summary using non-technical language of the findings of an Environmental Impact Assessment (EIA) undertaken for the proposed development. It has been prepared under the Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011 ('the EIA Regulations') as an EIA Scoping Opinion (PREAPP15/034) was adopted by WDC for the proposed development in 2015.
- 1.2.2 Running concurrently with the design process, the EIA has sought to:
- Identify the likely environmental effects of the proposed development;
 - Define appropriate design and construction measures, and good practice to mitigate likely significant adverse environmental effects and maximise opportunities for environmental enhancements resulting from the construction and operation of the proposed development; and
 - Determine the level and significance in the context of the EIA Regulations of the likely residual environmental effects from the proposed development remaining after all the proposed mitigation and enhancement have been considered.
- 1.2.3 The ES comprises the following volumes:
- **Volume 1 – Main Text;**
 - **Volume 2 – Appendices:** and,
 - This **Non-Technical Summary (NTS)**.
- 1.2.4 All figures are included in Volume 2 – Appendices, with the key EIA figures also included in this NTS as Appendix A.
- 1.2.5 The other principal documents submitted with the planning application include:
- Planning Application Drawings;
 - ePlanning Application Forms and Landownership Certificate;
 - Transport Assessment;
 - Flood Risk Assessment; and,
 - Habitats Regulations Appraisal – Appropriate Assessment Report.

1.3 Project Team

- 1.3.1 The organisations involved in the preparation of the ES and the undertaking of individual topic assessments provided in **ES Volume 1** and summarised in this NTS are listed below:

¹ Formerly Peter Brett Associates LLP

- Stantec – Project Management, EIA Co-ordination, Planning, Ground Conditions, Water, Hydrology & Flood Risk, Ecology, Traffic & Transport, Noise & Vibration, and Landscape & Visual; and
 - CgMs – Heritage & Archaeology.
- 1.3.2 In accordance with the EIA Regulations, a statement detailing the relevant qualifications and expertise of the individual members of the EIA project team is provided in **Appendix 1.1 of ES Volume 2**. In the context of the EIA Regulations, the EIA project team members are competent experts in relation to their specific contributions to this ES.

2 Site and Surrounding Area

2.1 The Site

Site Location, Context and Access

- 2.1.1 The site is located on the northern bank of the River Clyde and lies between the town of Dumbarton to the west and Bowling to the east as shown on **Figure 2.1 - Site Location Plan**. The site is bounded by the River Clyde, the Glasgow to Dunbartonshire and Argyll railway line, and the A82 Trunk Road.
- 2.1.2 **Figure 2.1 - Site Location Plan** shows the red and blue lines which form the basis of the PPiP application submitted for the proposed development:
- The site area (red line boundary) which is subject to a PPiP application for the proposed development extends to approximately 56 hectares (ha). The area includes open space areas where no development is presently proposed, meaning that the actual proposed development footprint is substantially smaller;
 - The site area (red line boundary) evolved throughout the design process, with all EIA reporting for the proposed development based on a 62.3ha red line boundary defined at EIA Design Freeze in March 2019. Minor refinements (reductions) were made to the site area prior to PPiP application submission in order to confirm all proposed development would take place at or above Mean High Water Springs (MHWS), such that a marine licence would not be required; and,
 - The blue line indicates the adjacent Milton Burn Sites of Special Scientific Interest (SSSI) which is 11.01 ha in area. This forms part of the former Esso Oil Terminal, Bowling and will be acquired by WDC as part of the site acquisition from Esso, although no development is proposed here. Taking account of other land at the former Esso Oil Terminal, Bowling, the wider area (which following land acquisition by WDC will be) under the control of the Applicant extends to approximately 75ha.
- 2.1.3 For the purposes of this EIA and to assist in clarifying the approach to assessment, the site has also been separated into seven 'Development Zones' (Zones A, B, C, D, E, F and G) with differing existing site conditions and comprising a number of constituent sub-areas. These development zones are shown in **Figure 3.1 - Parameters Plan** and explained in **Chapter 3 – The Proposed Development**.
- 2.1.4 NCN 7 runs along the northern boundary of the site and provides a local route to Bowling (0.5 miles, approximately 2 minutes' cycle / 5 minutes' walk) and Dumbarton (3 miles, approximately 15 minutes cycle / 1 hour walk) whilst also linking to Glasgow (12 miles, approximately 1-hour cycle) and Balloch (9 miles, approximately 45 minutes cycle) further away.
- 2.1.5 Access to the site has been restricted in recent years, though there is evidence that it is still used by occasional unauthorised users, particularly the remnants of a spine road running east / west. The Glasgow-Dumbarton railway line, running immediately north of the site, acts as a barrier between the site and Milton with limited crossing opportunities.
- 2.1.6 The nearest train station is located at Bowling, approximately half a mile to the east of the site. Bus services to the station include the 1A, 1B, 1E and 'The One' which stops on the A814 Dumbarton Road entrance to the station. There are no park and ride facilities at Bowling train station.
- 2.1.7 The site is ideally situated for access to and from the Strategic Road network. The A82 provides a link east to Glasgow (12 miles, approximately 45 minutes' drive). The M8 provides an alternative link to Glasgow and the rest of the central belt and can be accessed via the Erskine Bridge in around 5 minutes by car (5 miles) at Junction 30. From here, the M8 / A8 also links west to settlement in Inverclyde.
- 2.1.8 Glasgow Airport (total of 9 miles, approximately 20 minutes' drive) and Paisley (total of 15 miles, approximately 35 minutes' drive) are also accessible from the M8 at Junction 30.

Development Zones

2.1.9 The EIA has assessed land use and development activity proposed at site specific areas (Zone A - G) and the site as a whole. This is discussed in further detail in relation to the proposed development in **Section 3.3 – Key Development Parameters, Zones and Sub-Areas** and represented in **Figures 3.1 – Parameters Plan and Figure 3.2 – Internal Subdivisions Plan** within **Volume 2** of the ES.

Site Use and Planning History

2.1.10 The majority of site comprises land at the former Esso Oil Terminal, Bowling, which was previously occupied and is currently owned by Esso Petroleum Company (hereafter 'Esso'). This area was historically used as a fuel distribution terminal from the 1920's until the 1990's. The former terminal has been vacant and unused since decommission and clearance was completed in 2001.

2.1.11 As a result of the site's previous use, contamination by hydrocarbons is still present on the site. Esso has previously undertaken discrete voluntary remediation works, and a more extensive programme of works is now planned to be undertaken under planning permission DC18/013 prior to the construction of the proposed development. This implementation of DC18/013 therefore forms the Future Baseline scenario on top of which likely impacts from the proposed development have been assessed in this EIA.

2.1.12 The proposed development is being progressed by WDC under the Glasgow and Clyde Valley City Deal. The SBC and OBC identify the site as crucial to West Dunbartonshire's future economic development and will make a significant contribution to economic growth across the City Region.

Environmental Characteristics

2.1.13 Relevant environmental sensitivities affecting the site and its immediate surroundings are:

- **Contamination:** the site is currently contaminated due to its historical use as the former Esso Oil Terminal, Bowling. The current landowners are undertaking voluntary remediation of the site as approved by a separate planning permission (reference: DC10/013) and site remediation is expected to be fully complete by Autumn 2021. As a result, the EIA has been prepared on the basis that these remediation works are sufficient to facilitate the construction and operation of the proposed development, and existing contamination is not considered a factor for consideration within the ES;
- **Ecological Designations:** Sections of the River Clyde foreshore and Milton Island area which are within the site boundary lie within the Inner Clyde Special Protection Area (SPA), SSSI and Ramsar Site (wetlands of international importance). These ecological designations extend immediately outwith the site;
- **Watercourses:** The River Clyde bounds the site to the south and Milton Burn bi-sects the western part of the site before discharging southwards in the Milton Island area. In addition to the River Clyde, there are several smaller watercourses which flow through/close to the site: Milton Burn, Auchentorlie Burn, and two un-named watercourses referred to as 'West Drain' and 'East Drain' throughout the ES;
- **Flood Risk:** The site is within an area of flood risk, with a high risk of flooding from both coastal inundation and fluvial flooding associated with Milton Burn identified. In addition groundwater lying close to the surface has been identified;
- **Listed Buildings:** Dunglass Castle is a Category B Listed Building which lies within the site boundary; and
- **Topography:** The topography of the site is gently sloping which broadly falls from north to south towards the River Clyde, whilst the embankment of a dismantled railway traverses the site from the north-west to the north-eastern site boundary. Levels on site range from 0m AOD to 30m AOD.

2.1.14 These environmental sensitivities have directly informed the assessment of likely environmental effects from the proposed development as presented throughout the EIA.

2.2 The Surrounding Area

- 2.2.1 The site is in a strategic position on the transport network being adjacent to the A82 Trunk Road within proximity to the Erskine Bridge which provides links to the M8 and wider strategic road network. It is situated at the gateway to the Vale of Leven and Loch Lomond as well as onwards to Argyll and the Highlands, whilst also being within proximity to the Glasgow city region. It consequently offers several competitive advantages.
- 2.2.2 There are three additional SSSI located within 2 km of the site. The closest of these is Haw Craig - Glenarbutch SSSI which is 1 km north-east of the site at its closest point. This SSSI is designated for its rocky slopes and mixed ash woodland. One Local Nature Reserve (LNR), The Saltings LNR, is 2 km south-east at its closest point. It comprises regenerated woodland and meadow and is notable for its wetland habitats.
- 2.2.3 In terms of non-statutory designations, there are five Local Nature Conservation Sites (LNCSs) within 2 km of the site. The nearest LNCS is Auchentorlie Wood LNCS, which is c. 200 m north of the site at its closest point.
- 2.2.4 Generally, the topography surrounding the site rises to the north becoming highly undulated, whereas the landform levels off to the south of the river, where flat arable fields offer open views of the landscape.
- 2.2.5 A high ridge runs broadly east to west, creating a distinctive stretch of higher ground to the north of the site. The Kilpatrick Hills ridge ascends steeply north of the site, north of Bowling and Milton, and reaches heights of around 360 m AOD, approximately 2.5 km from the site.
- 2.2.6 The south facing landform falls from the Kilpatrick Hills towards the lowlands, where the site is located on low lying land adjacent to the River Clyde estuary. South of the site, on the south side of the River Clyde, the landform begins to rise gently with Bishopton located at around 35 m AOD, approximately 2 km to the south of the site.

2.3 Cumulative Development

- 2.3.1 The EIA Regulations require likely significant cumulative effects from a development proposal in combination with other relevant existing or approved developments to be identified and assessed within an ES. To be considered 'relevant', existing or approved developments need to be:
- Subject to either an extant planning permission or valid planning application (site allocations or potential future developments are not considered relevant as insufficient information and certainty is available to enable meaningful assessment);
 - Located within 2km of the site (the Study Area adopted in many technical assessments presented in this ES); and,
 - Of a scale and type which has the potential to directly or indirectly interact with the proposed development. Individual householder planning applications, applications to vary existing planning permissions and other minor applications with no clear relationship to the site or the proposed development were therefore excluded from further consideration.
- 2.3.2 To inform this EIA a full cumulative developments search was undertaken in February 2019 and updated in September 2019, with a further minor update undertaken in March 2020. Relevant cumulative developments identified from these searches, which have been taken account of in the technical assessments presented in **Chapters 6 – 13**, are listed in **Table 2.1** below and shown on **Figure 2.2 – Cumulative Developments Plan**. Of note:
- No relevant cumulative developments were identified to the south of the River Clyde (all are located within the WDC area); and,
 - Existing development present within 2km of the site is considered as a receptor or impact source (as appropriate) within each technical assessment rather than as cumulative development. This includes projects currently under construction which will be completed prior to the construction of the proposed development.

Table 2.1: Relevant Cumulative Developments

Planning Application Reference	Overview
Proposed Development (Pending Consideration)	
DC19/163 DC19/162	Review of Minerals Permission relating to DC02/187 and amendment of Condition 2 to allow continuation of operations at Dumbuckhill Quarry beyond the current consented expiry date of 2024 (up to 2041).
Approved Development	
DC18/013	Remediation of ground at former Esso Oil Terminal, including excavation, treatment & replacement of soils, treatment of ground water and installation of a sheet pile wall - by Esso Petroleum Company Limited ('Esso').
DC16/175 DC17/092	Conversion and extension to former church to form 10 dwellings with associated alterations and parking. Leven Street, Dumbarton
DC16/055	Alteration to existing planning permission for residential development, Castle Road, Dumbarton.
DC18/207	Construction of a 250KW hydropower scheme and associated infrastructure
DC15/270 DC16/116 DC16/117 DC16/262 DC16/263 DC17/186 DC17/188 DC17/041	Assorted planning permissions for the regeneration of Bowling Harbour comprising retail, commercial, leisure and residential uses, including improvement to public realm, pedestrian and vehicular access, road infrastructure, woodland management, water space strategy, car parking and associated landscaping.

2.3.3 **Table 2.1** includes planning permission DC18/013 (granted March 2019) for voluntary remediation works on land at the former Esso Oil Terminal, Bowling. This is considered relevant as whilst land subject to construction activities for the proposed development will first need to undergo suitable remediation and be determined to be suitable for use through the completion of a robust verification process, there remains the potential for other activities associated with planning permission DC18/013 (including future monitoring) to remain ongoing at the point of initial construction of the proposed development.

3 The Proposed Development

3.1 Overview

- 3.1.1 The proposed development comprises the redevelopment of the former Esso Oil Terminal, Bowling and adjacent land for the erection of a commercial-led mixed-use development, as shown on **Figure 3.1 – Parameters Plan** and **Figure 3.3 – Indicative Masterplan**.
- 3.1.2 The key elements of the proposed development are:
- Up to 44,550m² commercial and light industrial development, comprising a mix of Storage & Distribution, Industrial, Business and Office space as detailed below;
 - New link road with associated drainage and lighting infrastructure;
 - Upgraded existing public road (A814);
 - New junction on the A82 at Dumbuck with closure of the existing junction;
 - Remodelled junction on the A82 at Dunglass;
 - Enhanced routing of NCN Route 7 in the vicinity of the site;
 - New underpass of the Glasgow – Dumbarton Railway at the western access to the site;
 - Remodelled railway overbridge at the eastern access to the site;
 - Flood mitigation works;
 - Environmental mitigation works (but not remediation); and
 - Site drainage works.
- 3.1.3 The proposed development represents the outcome of a detailed masterplanning exercise which has been undertaken to demonstrate the capacity of the site, accommodate existing environmental characteristics and provide new transport infrastructure to meet identified local needs. The development capacity of the site is outlined on an illustrative basis in **Figure 3.3 – Indicative Masterplan**.

3.2 Key Physical Characteristics

Key Development Parameters, Zones and Sub-Areas

- 3.2.1 As shown on **Figure 3.1 - Parameters Plan** the site has been divided into seven 'Development Zones (Zones A, B, C, D, E, F and G) and a number of constituent sub-areas relating to historic site uses are also shown on **Figure 3.2 – Internal Subdivisions Plan**. The development zones have been defined for the purposes of this EIA in relation to clusters of similar proposed end-uses as illustrated on **Figure 3.3 – Indicative Masterplan**. For each zone, a set of parameters for development has been defined within which there is flexibility in the final design and layout of buildings. Key development parameters are highlighted in **Table 3.1** below.
- 3.2.2 Whilst each key element will be implemented in accordance with **Figure 3.1 - Parameters Plan**, they will also be subject to further detailed design and consenting. Following the granting of PPiP for the proposed development, a suite of applications for the Approval of Matters Specified in Conditions (AMSC) will need to be submitted and approved in order to fully authorise the construction and operation of the proposed development.

² The **Indicative Masterplan** (see **Figure 3.3**) developed to support the PPiP application includes specific provision for 44,512m² of mixed commercial floorspace within the site. Reflecting the 'in principle' nature of the proposed development, an aggregate floorspace limit of 44,550m² is sought in the PPiP application. No material difference in environmental effects associated with the erection and subsequent operation of the proposed development in full is considered likely.

Table 3.1: Internal Subdivisions

Development Zone	Esso Land 'Internal Subdivisions'	Proposed Land Use	Key Development Parameters	
Zone A: Office and Industrial	Eastfield (EFD)	Class 2 Office	1,752m ² floorspace	Total proposed commercial floorspace: 44,550m ² ³
		Class 5 Industrial	9,900m ² floorspace	
Zone B: Business	Centrefield (CFD)	Class 4 Commercial	7,860m ² floorspace	
Zone C: Storage & Distribution	Westfield A (WFA) Westfield B (WFB) Southern part of Westfield C (WFC)	Class 6 Storage & Distribution	25,000m ² floorspace	
Zone D: Landscaping	Northern part of WFC Western edge of WFA	Landscaping and public realm	LVIA and Ecology ES chapters jointly develop design principles for this area and identify the need for a Landscape Framework to be prepared to inform detailed design (at AMSC stage).	
Zone E: Open Space & Green Corridor	Greenfield (GFD) Northfield (NFD)	No physical development proposed – to be left as open space and landscaped Green Corridor (including for maintenance access)		
Zone F (corridor based)	Parts of: NFD, WFC, WFB, CFD, EFD and GFD	Transport & Drainage Infrastructure	<ul style="list-style-type: none"> • 1.95km new spine road with associated drainage and lighting; • 1.32km of upgraded existing public road (A814); • New junction on A82 at Dumbuck with closure of the existing junction; • Remodelled junction on the A82 at Dunglass; • Enhanced routing of 475m of National Cycle Network Route; • New underpass of Glasgow – Dumbarton Railway at western site access; • Remodelled railway overbridge at the eastern access to the site; • Flood mitigation works (including improvements to Milton Burn channel); • Site drainage works (including outfall at southern extent of Milton Burn corridor). 	
Zone G: Dunglass Castle (protection of setting of heritage assets)	Heritage Area	Castle retained with no development proposed		

³ The Indicative Masterplan (Figure 3.3) developed to support the PPIp application includes specific provision for 44,512m² of mixed commercial floorspace within the site. Reflecting the 'in principle' nature of the proposed development, an aggregate floorspace limit of 44,550m² is sought in the PPIp application. No material difference in environmental effects associated with the erection and subsequent operation of the proposed development in full is considered likely.

3.2.3 Within the development zones corresponding to land at the former Esso Oil Terminal, Bowling a series of 'Internal Subdivisions' areas have also previously been defined by Esso in relation to their historic use, as shown on **Figure 3.2 - Esso Land Internal Subdivisions Plan**. It should however be noted that:

- As the site of the proposed development extends beyond the Esso landownership, some development zones incorporate other land, including some land already owned by WDC and other third party land which is to be acquired by WDC; and,
- The Esso Oil Terminal, Bowling land ownership to be acquired by WDC includes the eastern corridor of the Milton Island SSSI. This is outwith the site of the proposed development and no development works are proposed in this location.

3.2.4 Whilst each key element will be implemented in accordance with **Figure 3.1 - Parameters Plan**, they will also be subject to further detailed design and consenting. Following the granting of PPIP for the proposed development, a suite of applications for the Approval of Matters Specified in Conditions (AMSC) will need to be submitted and approved in order to fully authorise the construction and operation of the proposed development.

Commercial and Industrial Floorspace

3.2.5 The proposed development includes up to approximately 44,550m² of mixed commercial and light industrial floorspace. As noted in **Chapter 1, Figure 3.3 - Indicative Masterplan** (which has been used to identify the likely significant environmental effects of the proposed development) includes specific provision for 44,512m² of mixed commercial floorspace within the site. Reflecting the 'in principle' nature of the proposed development, an aggregate floorspace limit of 44,550m² is sought in the PPIP application. No material difference in environmental effects associated with the erection and subsequent operation of the proposed development in full is considered likely. Based on the quantum of mixed commercial floorspace illustrated on **Figure 3.3**, the proposed breakdown of commercial and light industrial floorspace by use class is listed in **Table 3.2**.

Table 3.2: Proposed Development Quantum - Commercial and Light Industrial

Development Quantum	Square Metres (m ²)
Class 2 Financial and Professional Services	1,752
Class 4 Business	7,860
Class 5 General Industry	9,900
Class 6 Distribution	25,000
Total (indicative based on above use classes)	44,512
Maximum Commercial and Industrial Floorspace (Ceiling)	44,550

Access

3.2.6 The proposed development itself incorporates two new or upgraded junctions onto the surrounding road network, together with an internal access road, path enhancements and suitable parking provision.

3.3 Key Operational Characteristics

3.3.1 Once constructed, the proposed development will operate as a commercial-led mixed-use development with seven 'Internal Subdivisions' (Zones A – G). Once operational the key characteristics of the development will be those normally associated with a commercial-led mixed-use development, anticipated to include:

- The undertaking of light industrial and commercial economically productive activities, with associated employment;
- Movement of people (workers and visitors) with associated cars, bicycles and pedestrians to, from and within the site;
- Movement of Heavy and Light Goods Vehicles in and out of the site making deliveries; and
- Landscape maintenance.

3.4 Materials, Natural Resource Usage, Emissions and Waste

- 3.4.1 The construction of the proposed development will utilise land and construction materials including bricks, roofing tiles, cement, concrete, timber, asphalt, piping, etc). Soil (reused from onsite resources wherever practicable) and seeded grass or turf will also be used for landscaping purposes. Once occupied the proposed development will use non-domestic energy and utilities infrastructure.
- 3.4.2 Where possible, excavated material will (depending on type) be used to backfill excavations and for site re-profiling purposes where appropriate. It is not expected that any material would be unsuitable for re-use in this way, though in the unlikely event that such material arises it will be disposed off-site in line with relevant waste disposal regulations.
- 3.4.3 In the context of WDC and the Scottish Government having declared a climate emergency, the operational phase of the proposed development will be underpinned by a co-ordinated Energy Strategy. This document will set out an energy strategy for the site including opportunities to maximise energy efficiency and the potential deployment of low or zero carbon energy generating technologies.
- 3.4.4 Once completed and operational, the proposed development will be serviced by a commercial waste management and recycling contractor which will be appointed by the Applicant. The proposed development has been designed to accommodate heavy goods vehicles in areas where access would be required for uplifting waste and delivering supplies. The quantity and type(s) of waste during the operational phase cannot be predicted at this stage, as this would depend on the occupiers of the proposed development and the implementation of waste management legislation unrelated to the proposed development.

3.5 Consideration of Alternatives

- 3.5.1 Paragraph 4 of Part II of Schedule 4 of the EIA Regulations requires an ES to include an outline of the main alternatives considered by the applicant, indicating the main reasons for the choice made, taking into account the environmental effects.
- 3.5.2 Although the EIA Regulations do not expressly require the applicant to study alternatives, the nature of certain developments and their location may make the consideration of alternative sites a material consideration. In such cases, the ES must record this consideration of alternative sites. More generally, consideration of alternatives (including alternative sites, choice of process, and the phasing of construction) is widely regarded as good practice and resulting in a more robust application for planning permission.
- 3.5.3 **Section 3.7 of ES Volume 1** identifies the alternatives considered, which are summarised below:
- No development: for example, the site remaining vacant brownfield land, a scenario that offers no benefits to the local economy and the wider context (including wider transport improvements associated with the proposed development); and
 - Alternative forms of development: as presented within **Section 3.7** of the **ES Volume 1**.

4 Assessment Methods

4.1 Overview of EIA

- 4.1.1 EIA is a process which aims to identify a project's likely significant environmental effects, identify mitigation measures to reduce the level of or avoid those effects, and assess the residual significance of predicted environmental effects taking account of all proposed mitigation and enhancement measures. This process helps to ensure that predicted significance effects, and the scope for reducing them, are properly understood by the public and the relevant consenting authorities before determining an application for a development proposal.
- 4.1.2 The EIA Regulations emphasise that EIA is a process rather than an output and involves the following key stages:
- **Assessment work:** culminating in the preparation of an ES in accordance with information requirements prescribed by the EIA Regulations;
 - **Public consultation on the application for planning permission, the ES and any other relevant information.** Consultation may be iterative rather than only occurring once during the EIA process;
 - **Examination:** by the relevant authority of the information presented in the ES and other relevant information including that received through consultation; and
 - The authority coming to a **reasoned conclusion** on the residual significant effects of the proposed development on the environment, prior to the determination of any related consenting application.
- 4.1.3 The EIA process therefore encompasses all stages of considering environmental issues associated with projects, from initial identification of relevant issues through to assessing the residual significance of predicted environmental effects and securing required mitigation. This ensures that all required mitigation is subsequently carried out in the implementation of projects. EIA therefore directly influences the design, construction, operation and, where relevant, decommissioning of proposed projects, as well as providing information to decision makers.

4.2 EIA Screening and Scoping

- 4.2.1 Having regard to the nature of the proposed development and known environmental sensitivities within and surrounding the site, the Applicant is of the view that EIA is appropriately provided in relation to the planning application for the proposed development. Consequently, the proposed development is an EIA Development under Regulation 6(c) of the EIA Regulations by virtue of the submission of the ES to accompany a planning application for the proposed development.
- 4.2.2 An EIA screening request was submitted by the Applicant to West Dunbartonshire Council on 1st April 2015, to confirm whether the proposed development would constitute EIA Development and obtain clarity on the required scope of the EIA. The response received from the Council confirmed that an EIA would be required.
- 4.2.3 In May 2015 a Scoping Report was submitted to West Dunbartonshire Council. This report was set out on a topic by topic basis and provided a summary of each topic proposed to be covered within a future EIA. A formal EIA Scoping Opinion was adopted by the Council in June 2015 to define the required scope of the EIA; this is provided in **Appendix 4.1** of **ES Volume 2**. This Scoping Opinion draws upon EIA scoping consultation responses provided by relevant consultees.
- 4.2.4 In accordance with the EIA Regulations and best practice, the ES is based on the EIA Scoping Opinion and includes the information which the Applicant considers to be required to inform a reasonable conclusion on the significant effects of the proposed development on the environment, taking into account current knowledge and methods of assessment. Any material departures from the EIA Scoping Opinion are robustly justified within the appropriate technical assessment chapter of the ES.

4.3 Consultation

- 4.3.1 In addition to formally requesting the Council adopt an EIA Scoping Opinion in respect of the proposed development, additional consultation has been undertaken to provide information, discuss assessment methods and findings, and to agree mitigation measures and design responses. Consultation has been undertaken with stakeholders including (please note this is not an exhaustive list):
- Scottish Natural Heritage;
 - Historic Environment Scotland;
 - Royal Society for the Protection of Birds;
 - Scottish Environmental Protection Agency; and
 - Transport Scotland.
- 4.3.2 A programme of community engagement has also been undertaken, as detailed within the statutory **Pre-Application Consultation Report** submitted in support of the planning application for the proposed development.

4.4 EIA Methodology

Establishing Baseline Conditions

- 4.4.1 A range of site surveys and data collection exercises have been used to identify current environmental conditions at the site and within the surrounding area. The surveys undertaken are reported in each of the technical assessments provided in **Chapters 6 – 13** within **ES Volume 1**.
- 4.4.2 Each environmental topic has been subject to investigation and assessment to identify and evaluate likely significant environmental effects. The survey and assessment methodologies deployed were based on recognised best practice and guidance relevant to each topic area, details of which are provided within relevant technical assessment ES chapters (**Chapters 6 – 13**).

Impact Assessment

- 4.4.3 The likely effects of the construction and operational phase of the proposed development were then characterised, taking account of impact duration and all proposed embedded mitigation, to identify the predicted magnitude of change on each sensitive receptor.

Establishment of Effect Significance

- 4.4.4 The approach to assigning significance to predicted environmental effects is not itself detailed within the EIA Regulations, meaning that it is necessary to develop effect significance thresholds to underpin the assessments reported in **ES Volume 1**. These effect level and significance thresholds are defined on a topic specific basis within the technical assessments presented in **Chapters 6 – 13** of **ES Volume 1**, taking account of relevant regulations, guidance, standards, the advice and views of consultees, and expert judgement. All thresholds were based on the generic criteria set out in **Table 4.1** below.

Table 4.1: Generic Significance Criteria

	Level of Effect	Criteria
Significant	Substantial	These effects are assigned this level of significance as they represent key factors in the decision-making process. These effects are generally, but not exclusively, associated with sites and features of national or regional importance. A change at a district scale site or feature may also enter this category.
	Major	These effects are likely to be important considerations at a local or district scale and may become key factors in the decision-making process.

	Level of Effect	Criteria
	Moderate	These effects, while important at a local scale, are not anticipated to be key decision-making issues.
Not significant	Minor	These effects may be raised as local issues but are unlikely to be of importance in the decision-making process.
	Negligible or No Effect	Either no effect or effect which is beneath the level of perception, within normal bounds of variation or within the margin of forecasting error. Such effects should not be considered by the decision-maker.

4.4.5 Effects that are described as ‘substantial’, ‘major’ or ‘moderate’ are determined to be significant, whereas effects that are described as ‘minor’ or ‘negligible’ are determined to be not significant.

Mitigation and Enhancement

4.4.6 In line with EIA best practice, the iterative EIA, planning and design processes for the proposed development have been undertaken in tandem, with close dialogue maintained between the Applicant, EIA project team, project architect and other advisors. This has allowed an overarching suite of mitigation measures and commitments to be incorporated into the proposed development from the outset, in order to both address potentially adverse effects and enhance its environmental performance. There are termed embedded mitigation measures and are identified in **Section X.5** within the technical assessments presented in **Chapters 6 – 13** within **ES Volume 1**.

4.4.7 Where necessary to avoid likely significant adverse effects, minimise adverse effects or enhance the environmental performance of the proposed development, additional mitigation and potential enhancement measures are also identified throughout the EIA process. These measures are termed ‘further mitigation and enhancement’ and are defined within **Section X.7** within the technical assessments presented in **Chapters 6 – 13** within **ES Volume 1**.

4.4.8 **Chapter 15 – Schedule of Mitigation** provides a consolidated schedule of all mitigation and enhancement measures proposed to avoid significant adverse effects and enhance beneficial effects from the construction and operation of the proposed development.

Residual Effects

4.4.9 Residual effects are the environmental effects that will remain after the incorporation of both embedded and additional mitigation measures. It is the level of these residual effects which should be considered when assessing the significance of the proposed development, rather than the unmitigated effects as unmitigated effects will not occur. For example, ‘whilst a proposed development may affect protected species, appropriate mitigation has been identified to ensure that likely significant effects on such species do not occur.’

5 Likely Significant Effects

5.1 Overview

- 5.1.1 The detailed technical assessments provided in **Chapters 6 – 13** in **ES Volume 1** identify the following likely significant residual effects from the construction and operation of the proposed development. In all cases, the technical assessments are based on the characteristics of the site and the surrounding area and the key parameters of the proposed development detailed in **Chapter 2 – Site and Surrounding Area** and **Chapter 3 – The Proposed Development**.
- 5.1.2 Taking account of all proposed mitigation and enhancement measures, the only residual significant effects (beneficial or adverse) which are considered likely to arise from the proposed development are:
- 5.1.3 Taking account of all proposed mitigation and enhancement measures (as summarised in **Chapter 15**), the only residual significant effects (beneficial or adverse) which are considered likely to arise from the proposed development are:

Transport (Chapter 9)

Operational Phase

- Improved accessibility and connectivity for road users from Zone F Transport Infrastructure: **Moderate/Substantial Beneficial** and Long-Term effect; and
- Improved amenity for pedestrians and cyclists from Zone F Transport Infrastructure: **Moderate/Substantial Beneficial** and Long-Term effect.

Landscape and Visual (Chapter 12)

Operational Phase

- Local landscape character effects experienced post 15 years of operation experienced within the site and from the Inner Clyde Site of Special Scientific Interest (SSSI), Special Protection Area (SPA) and Ramsar site: **Moderate Beneficial** and Long-Term effect.
- 5.1.4 The assessments presented in **Chapters 6 - 13** of **ES Volume 1** conclude proposed construction activities and the subsequent operation of the proposed development are also likely to result in a range of other beneficial and adverse effects, each of which would be not significant in the context of the EIA Regulations.
- 5.1.5 **Sections 5.2 – 5.9** below provide a non-technical summary for each of these technical assessments. **Section 5.10** then summarises the assessments provided in **Chapters 6 - 13** of **ES Volume 1** regarding the likely impact iterations and synergistic effects from the proposed development.

5.2 Ground Conditions

- 5.2.1 **Chapter 6 – Ground Conditions** provides an assessment of the likely effects of the proposed development on terrestrial ground conditions, considering the geology, hydrogeology and ground stability within and in the immediate vicinity of the site. The assessment also provides details of the geological conditions and the presence of potentially contaminated land and hazardous materials.
- 5.2.1 The principal aspects considered within the chapter are:
- The likely impacts of both the construction phase and operational phase of the proposed development on the ground conditions (contamination and stability) and the associated effects on the environment and human health; and
 - The likely impacts of the ground conditions (contamination and stability) on the proposed development and the associated effects.
- 5.2.2 To assess an effect associated with ground conditions, the extent and nature of the potential hazard (a substance or situation that has the potential to cause harm or pollution) is assessed, exposure pathways (a means by which that the hazard moves along / generates exposure) are identified, and sensitive receptors or resources (an entity that is vulnerable to the potential

adverse effects of the hazard) are identified and appraised to determine their value and sensitivity to contamination related impacts.

5.2.3 Identification of the current Baseline conditions and potential for contaminated ground to be present is based on a review of current and previous land use activities. The redevelopment site has been zoned with Low and Very Low potential for contamination for areas with no or limited contaminating landuses to High for some areas of the former Esso Oil Terminal, Bowling. The following baseline conditions have been identified through this assessment:

- Ground conditions – made ground, marine deposits (comprising both granular and cohesive horizons), bedrock;
- Water environment – the site lies on the Kinnesswood Formation permeable aquifer (moderately permeable aquifer), and the Ballagan Formation and Cochno Lava Mambe non or weak permeable aquifers. The River Clyde runs along the southern body of the site, whilst Milton Burn and Auchentorlie Burn run through the western part of the site and immediately east of the site respectively;
- Ecological systems – there are three ecologically important resources bordering the site boundary bordering and within the southern portion of the site: the Inner Clyde Special Protection Area (SPA), Site of Scientific Interest (SSSI) and Ramsar site. These sites are designated for non-breeding birds;
- Contamination – The site investigation has identified sources of potential contaminants, including asbestos, ash and fill, metals and hydrocarbons, all of which are a legacy of the site’s historic land uses; and
- Ground stability – the soft, loose ground – potential compressibility of materials used to infill parts of the site and the areas underlain by Raised Tidal Flat Deposits. Groundwater levels close to the surface, where ground comprises fine grained marine deposits, particularly in the western part of the site, potential for running sands is assessed as High. Six geological fault lines also cross the site.

5.2.4 There is ground condition data for the majority of the land that comprises the former Esso Oil Terminal, Bowling and this has informed the proposed remediation by others. Following implementation of the proposed remediation the future Baseline conditions the ground conditions within the former terminal will not be detrimental to human health (noting that the proposed remediation is in the context of a commercial/industrial use without buildings and on existing topographic levels); and that will prevent or limit the entry of Hazardous Substances into the Water Environment.

5.2.5 A number of design features and embedded mitigation measures have been incorporated into the design and construction of the proposed development to avoid, prevent or minimise significant adverse environmental effects and to enhance beneficial effects. The main elements are:

- Further ground investigation and monitoring will be undertaken to inform the design and option selection. It is envisaged that any soil and geology conditions revealed by the additional investigation requiring mitigation can be dealt with through design measures. Any remedial measures such as gas protection measures or provision of clean cover in areas not subject to ground level raising and used as open space areas requiring incorporation into the completed development will be defined in a remedial strategy and agreed with the regulator prior to works beginning on site;
- Construction activities will be carried out in full compliance with relevant legislation and guidance such as the approved codes of practice published by the Health and Safety Executive (HSE);
- A Construction Environmental Management Plan (CEMP) will be developed which will set out procedures to protect environmental receptors and workers during the construction phase and will include protocols to manage unforeseen ground conditions; and
- The movement of excavated earth and soils around the site will be undertaken under an Earthworks and Materials Movement Strategy and a CL:AIRE compliant Soil Management Plan. The CL:AIRE Definition of Waste Code of Practise (DOWCOP) requires that material proposed for re-use should not present a risk to human health or the environment. Imported

soils will conform to site specific chemical quality requirements and ensure material does not present a risk to human health or the environment.

- 5.2.6 Significant residual adverse effects are not considered likely to occur and no monitoring of likely effects per se is proposed. Additional mitigation however includes further site investigation and monitoring to inform the design and option selection whilst gaining a better understanding of the ground conditions. Additionally, the movement of excavated soils around the site will be carried out under a CL:AIRE compliant Materials Management Plan.

5.3 Water, Hydrology & Flood Risk

- 5.3.1 **Chapter 7 – Water, Hydrology & Flood Risk** provides an assessment of the likely effects of the proposed development on the water environment, which includes fluvial and tidal hydrology, flood risk, surface water drainage and water supplies. The assessment has been informed by a Flood Risk Assessment and Hydraulic Modelling Report.

Methodology

- 5.3.2 The principal aspects considered within this assessment are:
- Flood risk and the impact on the development, including baseline hydraulic modelling;
 - Foul and surface water management;
 - Pollution prevention; and
 - The impact of engineering activities on the water environment.

Baseline Conditions

Hydrological Context

- 5.3.3 The River Clyde forms the southern boundary of the site and is the principal watercourse in the area, with mudflats and saltmarshes located to the west and south of the site.
- 5.3.4 The River Clyde adjacent to and downstream of the site falls within the 'Clyde Estuary - Outer' water body (ID: 200320) as classified under the WFD. It has been designated as a 'Heavily Modified Water Body' (HMWB) on account of "physical alterations that cannot be addressed without a significant impact on navigation and from an increased risk of subsidence or flooding". The water body's current overall status (2017) is classified as 'Moderate' ecological potential.
- 5.3.5 In addition to the River Clyde, there are several smaller watercourses which flow through/close to the site (which are not specifically categorised under WFD).
- 5.3.6 The Milton Burn flows from the hillside to the north of the site, through the village of Milton, beneath the A82 and the railway line, and through the site from north to south (between the 'GFD' and 'NFD' areas (internal sub-division Zone E)). The Milton Burn is culverted beneath the access track along the line of the former railway within the site, before discharging into the area of salt marsh and tidal mudflats at the south-western area of the site.
- 5.3.7 The Auchentorlie Burn flows from the hillside north of the site, draining a small rural catchment to the east of Craighunock Quarry. Information provided by WDC confirms that the Auchentorlie Burn does not flow through the site but flows through a culvert to the north and east of the site. The lower reaches of this watercourse flow through the adjacent 'Scott's Yard' site before discharging to the River Clyde at Bowling Harbour.
- 5.3.8 'West Drain' is an unnamed watercourse which has been identified as flowing from a point approximately 450m north west of the site, adjacent to the public cycle path. It is suggested by a 2016 survey that the end of the channel, within the north-western area of the site, enters a piped drainage system which flows in a southerly direction, potentially passing beneath the railway line and into the River Clyde.
- 5.3.9 'East Drain' is an un-named watercourse which has been identified as flowing from the hillside immediately to the north of the site. A 2016 survey confirmed suggests that 'East Drain' is piped beneath the A82 and discharges into a pond area between the A82 and the railway (north of the site). There are pipes which appear to be outfall pipes from the pond area, passing beneath the cycle path adjacent to the railway, before appearing to pass beneath the railway, and possibly entering the north of the site.

Existing Drainage

- 5.3.10 Key existing drainage infrastructure relevant to the site has been established from historical service plans (dated 1993), site walkover, topographical survey of the site undertaken in 2010 and 2014, and watercourse channel and hydraulic structures survey undertaken in 2016.
- 5.3.11 The historical services plans of the site indicate the presence of extant drainage systems, which originate within the site, and in the case of the surface water drainage system, discharge into the River Clyde.
- 5.3.12 An existing channel runs adjacent to the route of the former railway line within the site. The channel begins at the western end, fed by a small drainage channel flowing from the north. At the eastern end the channel enters a concrete section, which meanders around a 'railway interceptor', before entering a culvert via a sluice gate. The 1993 service plans for the site and the 2016 survey suggest that the culvert flows in a south easterly direction to an outfall into Dunglass Basin.
- 5.3.13 In addition to being fed by existing drainage systems within the site, it is also possible that the flows into the channel come from the 'East Drain' system to the north of the railway, via the pipes which appear to pass beneath the railway.
- 5.3.14 The historical service plans for the site, indicate a localised surface water drainage system shown to pass through the 'EFD' area from north of the site (internal sub-division Zone A) (i.e. passing beneath the railway). The drainage system may therefore have been removed as part of the remediation of the 'EFD' area or may still be in place.
- 5.3.15 There may be further extant drainage systems within the site which have not been identified above. It should be noted that it was not confirmed whether the 1993 drainage plans were comprehensive at the time of production, whether any of the indicated assets have been removed, or whether further drainage assets were constructed at a later date.
- 5.3.16 A review of Scottish Water public sewer records indicates that there are no public sewers located within the majority of the site. There is, however, a combined sewer located to the north west of the site, which serves part of the village of Milton. The system appears to drain to a small treatment plant and/or pumping station located outside of the western boundary, which appears to have an outfall/overflow into the River Clyde.
- 5.3.17 Existing highways and junctions which lie within the site boundary would be expected to be served by highway drainage systems. Survey of these systems are yet to be undertaken.

Tidal Flood Risk

- 5.3.18 In 2005 the RCFMS was prepared on behalf of Glasgow City Council. This study included the development of an ISIS hydraulic model of the River Clyde. In order to refine understanding of the baseline tidal flood extents within the site, the River Clyde model outputs were re-processed, by PBA, against an updated 3D ground model for the site.
- 5.3.19 The updated modelling confirmed that the risk to the site during the 1 in 10 (10%) annual probability tidal event is not as significant as suggested by the SEPA flood maps, with only a small area within 'WFA' and 'WFC' (internal sub-division Zones C and D) affected by tidal flooding in this scenario (apart from the Dunglass Basin and the River Clyde channel itself).
- 5.3.20 Significant areas within the 'WFA', 'WFB', 'WFC' and 'CFD' areas of the site (internal sub-division Zones B-D), and a small area to the north of the former railway line in both the 'NFD' and 'GFD' areas of the site (Zone E), are located within the 1 in 200 (0.5%) annual probability tidal flood extent. These areas are therefore within the defined 'Functional Floodplain' associated with the River Clyde and are considered as being at a 'high likelihood' of tidal flooding.
- 5.3.21 When the projected impacts of climate change are considered, the modelled flood extents extend towards the northern boundary of the site and indicate that the majority of the site will be impacted by a 1 in 200 (0.5%) annual probability plus climate change tidal event, with the exception of the 'EFD' area (internal sub-division Zone A), a small part of the 'WFB' and 'WFC' areas (internal sub-division Zone C and D), and areas of the site north of the railway.
- 5.3.22 It is a requirement that the projected impacts of climate change be considered in the assessment of flood risk and the design of mitigation measures. The RCFMS included application of a +20% climate change allowance to fluvial flows. With respect to sea level rise, the climate change

allowance applied to the extreme tides in the RCFMS was based on the UKCIP02 (UK Climate Impact Projections 2002) Medium-High emissions scenario to 2080, which resulted in the application of a 300mm increase in tidal level at the downstream end of the model. Although climate change guidance has been updated since the RCFMS was undertaken, it was agreed with WDC and SEPA that the River Clyde model would not need to be updated for the purposes of defining the design flood levels at the site.

- 5.3.23 The peak water level local to the site, taken from the RCFMS, for the 1 in 200 (0.5%) plus climate change allowance is 4.84m AOD.

Fluvial Flood Risk from Milton Burn

- 5.3.24 A new 1D-2D linked hydraulic model of the Milton Burn was constructed by PBA to assess the baseline fluvial flood risk to the site. A +20% climate change allowance was applied to fluvial flows in the Milton Burn as agreed with SEPA.
- 5.3.25 The model outputs for Milton Burn indicated, when compared to the 'tidal only' baseline results, that the fluvial influence results in no additional flooding to the 'WFA', 'WFC', 'CFD' and 'EFD' areas of the site (internal sub-division Zones A-D), but flooding within the 'GFD' and 'NFD' areas (internal sub-division Zone E) begins to occur during lower order events (i.e. during the 1 in 10 (10%) annual probability event) and is more significant during the 1 in 200 (0.5%) annual probability and the 1 in 200 (0.5%) annual probability plus climate change events. To the north of the railway line, but predominantly contained south of the A82, significant flooding from Milton Burn is predicted during all modelled events.
- 5.3.26 SEPA further requested that a 'fluvial only' flood risk baseline be modelled, the results of which indicated similar results to those obtained from the joint tidal and fluvial modelling discussed above, demonstrating that fluvial flood risk from Milton Burn within the 'GFD' and 'NFD' areas (internal sub-division Zone E) and to the north of the railway line (as described above) remains significant regardless of the tidal levels in the River Clyde.

Fluvial Flood Risk from 'East Drain'

- 5.3.27 Flows into the site are likely to be restricted by the capacity of the pipes passing beneath the railway line and on this basis the risk of flooding within the site is likely to be limited.
- 5.3.28 Due to the relative levels of the site, the railway line and the pond area, it may possible for any water that backs up in the pond to overtop the railway line and impact upon the site in an extreme event, however this would only be expected to affect the 'NFD' area of the site, where no development is proposed, and notwithstanding the above, is unlikely to be more significant than flooding from the River Clyde or Milton Burn.

Fluvial Flood Risk from 'West Drain'

- 5.3.29 Anecdotal information indicates that there are recorded incidences of flooding on or near the cycle path in the north west of the site. As the catchment of 'West Drain' is likely to be relatively small, this suggests there may be capacity issues with the channel and/or culverts at the downstream end of 'West Drain'.
- 5.3.30 As the former underpass beneath the railway line has been infilled, there is no pathway for flood flows associated with 'West Drain' to impact upon the main part of the site south of the railway, but any flooding associated with 'West Drain' could impact on the north-western area of the site, to the north of the railway. Due to the small catchment, flooding is likely to be localised.

Fluvial Flood Risk from Auchentorlie Burn

- 5.3.31 In correspondence included as part of the appendices, SEPA confirmed that there is no requirement to consider Auchentorlie Burn further in the assessment of flood risk and drainage at the site. The lower reaches pass through the adjacent 'Scott's Yard' site and do not enter the site boundary.

Pluvial Flood Risk

- 5.3.32 SEPA online Flood Map indicates that parts of the site are considered as being at a 'medium' (1 in 200 (0.5%) annual probability) to 'high' (1 in 10 (10%) annual probability) likelihood of surface water flooding. The SEPA online maps indicate this source of flooding is predominantly a risk to the 'GFD' and 'NFD' areas of the site (internal sub-division Zone E) which will remain undeveloped. Further localised areas of pluvial flood risk are indicated across other areas of the

site which would be expected to be adequately addressed by development of the site and a sustainable surface water management strategy.

Groundwater Flood Risk

- 5.3.33 SEPA online Flood Map shows indicative areas where there is a likelihood of groundwater flooding. According to the map, groundwater is unlikely to influence the duration and extent of flooding from within the site or its immediate vicinity. However, BGS data suggests a risk of groundwater flooding in some areas, on balance therefore, tidally influenced groundwater flooding was determined to require consideration in the proposed mitigation measures.

Future Baseline

- 5.3.34 Future baseline conditions are expected to replicate the current baseline conditions, as the completed remediation strategy is expected to restore site levels to the existing grade and will not affect the operation of surface water drainage systems. However, some degree of increase in tidal flooding and/or fluvial flooding may occur due to the impacts of climate change.

Proposed Mitigation/Enhancement

- 5.3.35 A collection of embedded and further mitigation measures has been prepared to avoid, prevent and minimise the likely significant effects on the water environment, including:
- Raising ground floor finished floor levels of proposed buildings to 5.5mAOD or above;
 - Raising external ground levels (car parks and areas surrounding buildings) and access roads to 4.9mAOD or above;
 - Provision of walls around railway underpass to a top level of 4.9mAOD or above to the east of the railway line;
 - Provision of walls around railway underpass to a top level of 8.5mAOD or above to the west of the railway line;
 - De-silting of a section of the Milton Burn between the A82 and a point south of the railway crossing (including beneath the structure) by a depth of approximately 200mm;
 - Introducing a new flood relief culvert under the railway, to the north east of the proposed access road underpass;
 - Creation of a drainage channel along the toe of the north side of the railway embankment to convey out-of-bank flood flows towards the relief culvert;
 - Create a drainage channel along the toe of the north side of the western access road embankment to convey flood flows towards the relief culverts beneath the road;
 - Introduce three culverts under the western access road, to the west of the Milton Burn, to allow flows to pass out into the tidal estuary;
 - Introduce a culvert to facilitate the western access crossing over the Milton Burn;
 - Permanent surface water drainage and SuDS to ensure sufficient treatment of surface waters prior to discharge from the development;
 - Surface water discharges to non-tidal watercourses (if required) to be attenuated to pre-development rates;
 - Extant surface water drainage systems within the site which may convey flows from areas of the site which are to remain undeveloped or from areas outside of the site, will be retained and/or diverted as appropriate as part of the development;
 - Regular inspection and maintenance of flood mitigation infrastructure and drainage infrastructure will be implemented to maintain the performance over the lifetime of the development;
 - Use of construction phase SuDS;
 - Developing and adhering to a Construction Environmental Management Plan (CEMP) including a Pollution Prevention Plan (PPP) and appropriate Controlled Activities Regulations (CAR) Authorisations, which will include monitoring of the site activities to ensure compliance; and

- Adherence to national relevant guidance, legislation and good practice in construction methods.

Residual Effects

- 5.3.36 Taking account of further mitigation and enhancement measures, all likely residual construction phase effects on flood risk and water quality can be reduced to slight/moderate or lower levels and would therefore be considered Not Significant in the context of the EIA Regulations.
- 5.3.37 Operational phase residual effects would also be Not Significant as any risks to water quality, flooding, site users and portable water supply will be managed by the proposed flood mitigation works and the proposed on-site surface water management systems including appropriate SuDS features.

5.4 Ecology

- 5.4.1 **Chapter 8 – Ecology** provides an assessment of the likely effects of the proposed development on sensitive ecological receptors within the site and the surrounding area. This assessment has been undertaken in line with the Guidelines for Ecological Impact Assessment issued by the Chartered Institute of Ecology and Environmental Management ('the CIEEM Guidelines') ('2018). In accordance with relevant statutory and policy requirements the PPIP application for the proposed development is also accompanied by a standalone **Habitats Regulations Appraisal (HRA) – Appropriate Assessment Report**.

Baseline Conditions

- 5.4.2 A series of surveys were undertaken to establish the ecological baseline conditions at the site and to identify potential sensitivities at the site. The baseline ecological conditions are the site were as follows:
- A number of statutory and non-statutory designated sites for nature conservation were identified within 2km of the site. This included the inner Clyde SPA/ Ramsar and SSSI which is of international/ National value;
 - The proposed development site is dominated by bare ground considered to be of negligible nature conservation value. However, the terrestrial habitat surveys within the site identified a mosaic of the following habitats: Ephemeral/ Short Perennial, Marshy grassland (including with scrub), standing water and swamp habitats and broad-leaved woodland. These habitats were generally considered to be widespread and common habitats, however, the habitats of greatest ecological value for the site were identified to be those associated with the intertidal environment (saltmarsh and inter-tidal mudflats) which have an internationally restricted distribution; and
 - A number of protected/ notable species were identified to use the site and its surroundings. Overwintering birds, commuting/ foraging bats and otters on site were identified as potentially being ecologically significant at the site. In addition, the site was also identified as potentially being important for a variety of invertebrate taxa.
- 5.4.3 baseline study identified the following ecological features. The potential impacts of the proposed development were assessed:
- Inner Clyde Special Protection Area (SPA), Ramsar (wintering redshank population – qualifying feature);
 - Inner Clyde SSSI (non SPA/Ramsar features) (wintering birds and saltmarsh habitats);
 - On -site Habitats: Ephemeral/ Short Perennial, Marshy grassland (including with scrub), standing water and swamp habitats and broad-leaved woodland;
 - Wintering birds in Terrestrial Habitats On Site - Non-SPA/ SSSI Species;
 - Breeding Bird – On site;
 - Otter;
 - Invertebrates; and
 - Bats (Foraging and commuting).

Mitigation and Enhancement

- 5.4.4 A number of mitigation measures have been incorporated into the design, construction and operational phases of the proposed development to avoid significant adverse environmental effects on sensitive ecological receptors. These cover the following main themes:
- Protection of ecologically sensitive features and retained vegetation;
 - Development and implementation of a Construction Environmental Management Plan, to include measures and procedures for:
 - Details of important ecological features/ habitats, how they are to be protected;
 - Appointment of an Ecological Clerk of Works (ECoW) to undertake regular environmental monitoring of site;
 - Details of update ecological surveys that may be required;
 - Where further vegetation clearance is required prior to the commencement of construction works, clearance will be conducted in the winter months where possible. The Ecological Clerk of Works will provide input on the appropriate approach;
 - Implementation of best practice mitigation measures in relation to pollution prevention control (i.e. dust and silt control, oils, fuels/ materials storage and pollution prevention and control);
 - Implementation of an ecologically informed lighting strategy; and
 - Incorporation of sensitive timing and adaptation of working methods to minimise disturbance to wildlife.
 - Detailed design of new road and drainage to have cognizance of relevant ecological interests, in particular to allow hydrological permeability along the road. The culvert will also require to be designed to allow free movement of otters along the Milton Burn;
 - Incorporation of green buffers and corridors to provide/maintain ecological connectivity along the waters edge, to provide separation of people and the Inner Clyde SPA/ Ramsar/SSSI and to soften the visual effects of the proposed development and screen the sensitive ecological features associated with the Clyde from potentially disturbing activities;
 - Maintenance and/or creation of conditions suitable for saltmarsh within areas south of the new road;
 - Sensitive management of Milton Burn; and
 - Development and implementation of a detailed Landscape Framework.

Residual Effects

- 5.4.5 Taking account of all proposed mitigation and enhancement measures, no residual likely significant ecological effects (in CIEEM and EIA terms) were identified through ecological impact assessment undertaken for the proposed development.
- 5.4.6 It is important to note that a separate HRA has been carried out to assess likely significant effects and any likely adverse effects on relevant European Sites, as detailed in the submitted HRA Appropriate Assessment Report. This identifies a series of Likely Significant Effects (in HRA terms only) on the qualifying features of the Inner Clyde SPA & Ramsar Site but concludes that, taking account of proposed mitigation (and enhancement) measures, there would be no adverse effects (in HRA terms) on the integrity of these European Sites.

5.5 Traffic & Transport

- 5.5.1 **Chapter 9 – Traffic & Transport** provides an assessment of the likely effects of the proposed development on traffic, transport and access. The assessment builds upon a Transport Assessment provided in **Appendix 9.2**. The Transport Assessment contains a more detailed analysis of predicted changes in traffic flows and travel patterns resulting from the proposed development.
- 5.5.2 In accordance with relevant policy requirements and guidelines, the assessment identifies and examines the sensitivity of receptors comprising the users of key links within the local road

network surrounding the site. With the adoption of a Construction Traffic Management Plan (CTMP) as part of a wider Construction Environmental Management Plan (CEMP), the assessment concludes that the construction phases of the proposed development is not likely to result in any significant effects on identified receptors.

- 5.5.3 To identify likely operational traffic effects from the proposed development on the identified receptors, consideration was given to the predicted percentage change in traffic flows on selected links within the local road network. Other factors including the existing level of base flows and whether the proposed development would have any road safety implications were also taken into account in order to determine the level and thus EIA significance of likely operational phase effects.
- 5.5.4 The assessment concludes that predicted that the construction and operational phases of the proposed development are not likely to generate traffic flows of a level that would be likely to trigger significant traffic effects within the context of the EIA Regulations. In all cases, the assessed roads and junctions are considered likely to experience only Slight Adverse effects from traffic generated by the proposed development. The development of on-site paths and proposed contributions to the development of off-site paths is however likely to result in a Moderate Beneficial effect on the local walking and cycling network, which would be significant in the context of the EIA Regulations.

5.6 Air Quality

- 5.6.1 **Chapter 10 – Air Quality** provides an assessment of the likely effects of the proposed development on local air quality. The assessment was undertaken in accordance with guidance from the Institute of Air Quality Management (IAQM) and national and local policy.
- 5.6.2 The air quality effects associated with the construction and operation phases of the proposed development have been assessed. The chapter described the existing baseline air quality close to the proposed development and assessed the impact of the construction and operation of the proposed development on local air quality. The construction phase impacts have been assessed in accordance with the IAQM guidance on the assessment of dust from demolition and construction and has found that following implementation of the embedded mitigation measures in the form of a CEMP, which would include all mitigation measures for low risk sites as set out within the IAQM guidance, the impact of the construction phase would not be significant.
- 5.6.3 The impacts of traffic generated by the operational development has been predicted using detailed dispersion modelling and in accordance with current air quality planning guidance published by EPUK and IAQM. The assessment has considered impacts on sensitive human receptors (residential and educational receptors) and designated ecological habitats within 250 m of the road links identified by the transport consultants (PBA) within the vicinity of the Site. The assessment has concluded that impacts on both human and ecological receptors would be negligible as a result of additional vehicle movements on the adjacent road network. No further mitigation measures are therefore required beyond those embedded within the proposed development.
- 5.6.4 Overall, the operational air quality effects of the proposed development are judged to be not significant within the context of the EIA Regulations.

5.7 Noise & Vibration

- 5.7.1 **Chapter 11 – Noise & Vibration** provides an assessment of the likely effects of noise and vibration effects of the construction and operational proposed development on the sound and vibration climate at noise sensitive receptors around the site.
- 5.7.2 An unattended environmental sound survey was undertaken at three locations around the proposed development site in 2016 in order to establish the existing sound climate.
- 5.7.3 Noise impacts associated with the construction phase could impact on nearby properties. Therefore, mitigation measures should be incorporated through the Construction Environmental Management Plan to minimise the impacts. This should include use of best practicable measures. With these measures in place the residual impact would be deemed as negligible.
- 5.7.4 Traffic flows associated with the development (including cumulative traffic flows) have been assessed to determine the impact on the existing road network and the potential increase of

noise on existing receptors. The level of residual impact that development traffic is likely to have on existing receptors is deemed to be negligible.

- 5.7.5 With the use of suitably worded conditions and appropriate mitigation, plant noise emissions from the proposed development are unlikely to have an impact on existing receptors and is deemed to be negligible.
- 5.7.6 The assessment demonstrates that with the adoption of appropriate mitigation measures, the proposed development site is unlikely to be subject to, or result in, any significant noise or vibration effects.

5.8 Landscape & Visual

- 5.8.1 **Chapter 12 – Landscape & Visual** provides an assessment of the likely landscape and visual effects of the proposed development. The LVIA has been carried out by experienced Chartered Landscape Architects in accordance with appropriate industry standard guidance and in accordance with a tried and tested methodology. It has been informed by consultation with statutory consultees, desktop analysis and site survey.
- 5.8.2 The site in general is a large expanse of flat reclaimed bare ground generally consisting of demolition rubble with areas of gravel ephemeral grass, regenerated scrub and young trees. Most of the site is degraded and Zones A, B and C is currently undergoing soil remediation. However, Zone E is covered with a mixture of grassland, woodland and marshy grassland in the western part with denser scrub in the eastern part. There are also groups of mature trees and woodland within field (part of Zone F) between the North Clyde railway and the A814 Glasgow Road/A82 and along disused railway line and along the eastern boundary. There are linear groups of trees and shrubs associated with the North Clyde railway line and a belt of mature broadleaved trees along the eastern boundary of Zone A.
- 5.8.3 There are open views across the site to the south across the River Clyde to higher moorland and within Zone G Dunglass Castle and the Obelisk Memorial, both listed buildings are positioned on a rocky cliff next to the river.
- 5.8.4 The landscape and visual embedded mitigation comprise an integrated landscape and ecology approach, which includes the following key principles:

Construction Phase

- The implementation of a Construction Environmental Management Plan (CEMP). Of relevance to this assessment, the CEMP will include measures and procedures regarding the management of construction traffic, working hours and identification of appropriate locations for siting of compounds and stockpiles. The CEMP will also specify the use of 2 metre hoardings and perimeter mounding to screen low-level activity where it forms a significant part of a view from an identified landscape or visual receptor;
- The implementation of a Construction Traffic Management Plan (CTMP). Of relevance to this assessment, the CTMP will include measures and procedures to allow for continuity of access along local roads and the NCN7. As detailed further in Chapter 9 – Transport, a temporary dedicated cycle crossing point and localised diversion will be installed at the north east corner of the site during the construction of Access East. A phased approach and localised diversions will be adopted during the construction of Access West, thereby maintaining a continuous route for both cyclists and road users; and
- Identification of trees, tree groups and hedges that require removal, protection for those to be retained close to the works, and proposals for reinstatement detailed in plans. All works will be undertaken to British Standards. Stockpiled soils will be protected, traffic would be managed, and the siting and height of temporary buildings, cabins, equipment and lighting carefully considered to minimise visual effects.

Operational Phase

- Siting - selection of a derelict brownfield former industrial site in need of redevelopment within a wider area where the existing character is influenced by current industrial development and where there is a tradition of industrial/commercial development associated with the River Clyde;

- Maximum height of proposed buildings limited to 11m to minimise visual effects (the ZTV was calculated on the basis of this parameter);
 - Design features as outlined within the submitted Design and Access Statement and indicative Masterplan;
 - Detailed design of proposed buildings and structures will be informed by massing studies, the development of lighting, biodiversity and landscaping strategies, public consultation, and feedback from the West Dunbartonshire Place & Design Panel. In particular:
 - Sensitive lighting design to reduce light spillage and glare;
 - Sensitive design of new relief drainage culverts and enhancement of Milton Burn culvert (under new road) to blend into the wetland landscape;
 - Retention of existing trees and vegetation where practicable, that is ecologically or visually important - specifically within Zones D and E, adjacent to Dunglass Castle and Milton Burn;
 - Creation of a green buffer along the edges of Zone F (adjacent to the proposed carriageways and junctions), including native tree and shrub planting and the provision of wildflower meadows planting to enhance both the landscape and ecological connectivity;
 - Salt marsh planting within cleared open 'glade' areas south of the new road (Zone F) adjacent to or within the Milton SSSI;
 - Creation of an attractive a 15m open frontage along the river (Zone E) which allows for pedestrian connectivity and views across the river. The planting of new native trees and shrubs within open space to sensitively provide some screening/softening effects of the new development and to provide/maintain ecological connectivity along the waters' edge;
 - Sensitive management of Milton Burn along the edges of Zone F (within Milton Island SSSI), including new riparian and salt marsh planting to enhance wetland landscape;
 - Creation of a naturalistic wooded setting along waterfront to Zone A to include extensive areas of native tree and shrub planting. The creation of attractive formal landscape within Zones B & C around the new buildings with pockets of native planting providing some biodiversity interest, as illustrated on the Site Masterplan 30953/3503/001 Rev C; and
 - Provision of connections to the NCN7 at both ends of the site, with section of NCN7 running continuously through the site upgraded to include improved crossing facilities for pedestrians and cyclists on the A814 (toucan crossing) and a 3.0m shared footway. Two toucan crossings will also be provided to the west of the site. Sustrans have been consulted on the design of the route and agreed it is acceptable to them.
- 5.8.5 During operation, the landscape assessment identified long term, direct, **adverse** effects of a **moderate level of significance** upon the Inner Clyde Site of Special Scientific Interest (SSSI), Special Protection Area (SPA) and RAMSAR and local landscape character of the site.
- 5.8.6 Long term, **adverse** effects upon most landscape features and elements - district landscape character area, the trees and vegetation within the site, pond, watercourses and wetland habitat and sections of the PRow, NCN Route 7 and Core Path were assessed as being **minor** adverse, and therefore **not significant**.
- 5.8.7 During construction the visual assessment identified temporary, direct, adverse visual effects:
- With a **moderate level of significance** assessed for VP3: Colquhoun Road. This is due to the tree removals associated with the new modification works at the new upgraded A82/A814 junctions which would form a large part of these short-term views particularly close to this junction;
 - With a **moderate level of significance** assessed for VP7: Core Path at Dove Cottage. This is due to construction activities of the new buildings along the water frontage on the opposite bank of the River Clyde which would be clearly perceptible;
 - With a **minor level of significance** for most representative views including VP1, VP2, VP4, VP5 and VP6; and

- With a **negligible level of significance** for VP8 and VP9.
- 5.8.8 During operation, the visual assessment identified long term, direct, **adverse** effects:
- With a **moderate level of significance** assessed for VP7: Core Path at Dove Cottage. This is due to distant views of the new buildings along the water frontage on the opposite bank of the River Clyde which are perceivable from these high sensitivity receptors;
 - With a **minor level of significance** is assessed for VP3: Colquhoun Road. This is due close views of the upgraded A82/A814 junction and new buildings visible in the middle distance from some elevated properties within Milton which likely to be perceivable within open and wide views across the river;
 - With a **minor level of significance** for most representative views including VP1, VP2, VP3, VP4, VP5 and VP6; and
 - With a **negligible level of significance** for VP8 and VP9.
- 5.8.9 At 15 years after planting, the landscape assessment identified long term, direct, **beneficial** effects:
- With a **moderate level of significance** upon the Inner Clyde Site of Special Scientific Interest (SSSI), Special Protection Area (SPA) and RAMSAR and local landscape character of the site and Local Landscape Character of the site; and
 - With a **minor level of significance** upon LCA 9: Green Corridors and Unit 9a: River Clyde, Trees and vegetation within the Site, Ponds, watercourses and wetland habitat within the Site and the Public Rights of Way and Cycle Routes within the site.
- 5.8.10 At 15 years after planting, the visual assessment identified long term, direct, **beneficial** effects:
- With a **moderate** level of significance assessed for VP7: Core Path at Dove Cottage;
 - With a **minor** level of significance for most representative views including VP1, VP2, VP3, VP4, VP5 and VP6; and
 - With a **negligible** level of significance for VP8 and VP9.

5.9 Archaeology & Heritage

- 5.9.1 **Chapter 13 – Archaeology & Heritage** provides an assessment of the likely effects of the proposed development upon cultural heritage assets. Specifically, it considers the effects relating to the setting of designated heritage assets (Scheduled Monuments, Listed Buildings, Inventory Gardens and Designated Landscapes, Inventory Battlefields and Conservation Areas).
- 5.9.2 The chapter draws upon the results of a desk-based assessment that has gathered data from various sources to identify potentially affected assets and characterise the archaeological potential of the site. This desk-based work has been verified and augmented through a walkover survey. In line with relevant guidance, the potential effects of the proposed development have been assessed with regard to the change in the affected assets' cultural significance.
- 5.9.3 Two Category B Listed Buildings lie within Zone G of the site: Dunglass Castle and the adjacent Obelisk Memorial to Henry Bell. No works affecting the physical fabric of these is proposed, but the development of the site will change their setting. The current design includes embedded mitigation measures to preserve the setting of these and it is considered that the proposed development will not have a significant effect in respect of the Listed Buildings. The proposed development will not substantively affect the setting of any designated assets in the surrounding area.
- 5.9.4 Aside from the Listed Buildings, no heritage assets have been recorded previously within the site. The baseline study has established that the greater part of the site lay in the intertidal zone until its reclamation in a series of phases starting in the late 18th/early 19th century. These reclaimed areas were latterly occupied by a fuel depot. This has been demolished and a programme of remediation has recently received planning consent. As formerly intertidal land, the reclaimed areas have low archaeological potential. This will be further reduced by the consented remediation works. Attached to the planning consent for the remediation works is a condition requiring a programme of archaeological works. This will result in the recording and

excavation of any archaeology present in the areas of remediation ahead, rendering these areas archaeologically sterile. Nevertheless, an area of elevated archaeological potential has been identified at the western end of the site as a number of Roman artefacts have been recorded in this vicinity. Ground disturbance in this area will be limited, but there is potential for previously unrecorded archaeology to be affected. This potential will be addressed through a programme of archaeological works that will allow for the identification and appropriate recording of any archaeology in the construction footprint. This will offset the physical loss of such remains and there will be no significant residual effects.

5.10 Environmental Interactions

- 5.10.1 **Chapter 13 – Environmental Interactions** builds upon the individual technical assessments presented in **Chapters 6 – 13** to provide an assessment of likely impact interactions and synergistic effects from the construction and operation of the proposed development.
- 5.10.2 The assessment concludes that the operational phase of the proposed development is likely to generate a limited number of significant beneficial environmental and amenity effects, with no significant adverse effects predicted.

6 Mitigation and Monitoring Requirements

- 6.1.1 **Chapter 15** of **ES Volume 1** provides a consolidated schedule of all mitigation and enhancement measures proposed to avoid significant adverse effects and enhance beneficial effects from the construction and operation of the proposed development. It is reproduced within this NTS in full as the measures are reported in a summary form and in nontechnical language.
- 6.1.2 The schedule of mitigation is provided to assist the Council as the relevant local planning authority and EIA competent authority to secure proposed mitigation measures and monitoring arrangements within any planning permission granted for the proposed development.

6.2 Proposed Mitigation Measures

- 6.2.1 **Table 6.1** below summarises all mitigation and enhancement measures committed to by the Applicant for the construction and operational phases of the proposed development. This includes reference to specific sections of ES Volume 1 – Main Text where the full details of proposed mitigation and enhancement measures are set out.

Mitigation / Enhancement Measure Type	Proposed Measures
Ground Conditions	<ol style="list-style-type: none"> 1. Development and implementation of detailed construction phase protocols to identify and manage any unforeseen ground conditions (contamination or ground instability). 2. Post remediation monitoring of ground gases and vapours to confirm residual gas regime. This will determine potential need for welfare and office accommodation to be raised off the ground to mitigate ground gas ingress and/or incorporation of gas protection measures in the permanent buildings. 3. Intrusive investigations on areas of unknown ground to inform detailed design, in particular for Access East and Access West in Zone F and for other proposed infrastructure. Further ground investigation to be undertaken to inform road and building design as required. As the consented voluntary remediation (Esso) does not consider use of the site as public open space, supplementary investigation, assessment and mitigation if needed may be required in any proposed open space areas not subject to ground level raising. 4. Testing and quality specification of imported clean materials for use in ground raising. Movement of excavated soils to be undertaken under a CL:AIRE compliant Materials Management Plan which will incorporate importation and re-use criteria. The CL:AIRE code of practice requires demonstration of consultation and agreement with the regulators. 5. Preparation and implementation of Earthworks and Materials Movement Strategy (Section 6.6 refers). 6. Implementation of safe and suitable piling and other ground improvement techniques as required, taking account of ground conditions and ground stability risks. 7. Provision of Foundation Works Risk Assessment (FWRA) following confirmation of proposed foundation solution and appointment of contractor. 8. Type of construction materials to be in-ground (potentially subjected to aggressive ground conditions) to be specified with due consideration to the ground conditions and detailed design layout.
Design Features	<ol style="list-style-type: none"> 9. Development in accordance with submitted planning application drawings, in particular Figure 3.1 – Parameters Plan. 10. Development and implementation of Energy Strategy for the site (Section 3.4 refers). 11. Adoption of avoidance and mitigation measures (in accordance with Mitigation Hierarchy) to avoid adverse effects on Inner Clyde SPA, SSSI and Ramsar Site qualifying and special interests (as detailed in Sections 8.6 and 8.8). Measures also summarised within the submitted HRA Appropriate Assessment Report. 12. Provision of connections to the NCN7 at both ends of the site, with section of NCN7 running continuously through the site upgraded to include improved crossing facilities for pedestrians and cyclists on the A814 (toucan crossing) and a 3.0m shared footway. 13. Two toucan crossings to be provided west of the site.
Flooding and Drainage	<ol style="list-style-type: none"> 14. Works within the water environment to be subject to CAR Authorisation (SEPA). 15. Implementation of Flood Risk Management Strategy as per Appendix 7.2 – FRA, including: <ol style="list-style-type: none"> i. Maintenance of Green Corridor along River Clyde frontage in Zone E.

Mitigation / Enhancement Measure Type	Proposed Measures
	<ul style="list-style-type: none"> ii. Channel clearing and improvement/maintenance works to Milton Burn. iii. Ground and finished floor levels and other flood mitigation measures as specified in Chapter 7 and Figure 7.2 - Conceptual Flood Mitigation Strategy. <p>16. Surface water management strategy as specified in Chapter 7 and Figure 7.3 - Conceptual Surface Water Management Areas.</p> <p>17. Development and implementation of construction phase Flood Response Plan.</p>
Construction Phase Pollution Prevention Measures	<p><u>Proposed Development</u></p> <p>18. Development and implementation of Construction Environmental Management Plan (CEMP), to include measures and procedures for:</p> <ul style="list-style-type: none"> iv. Contractor management. v. Materials, chemicals and hazardous substances storage. vi. Construction traffic and parking management. vii. Dust Management Plan including relevant construction dust mitigation measures as specified in IAQM Guidance. viii. Matters relating to dust and silt control, oils, fuels and materials storage, pollution prevention and control, and the protection of hydrological receptors; ix. Deployment of suitable containment systems and suitable treatment or settlement facilities; x. Construction Drainage Plan including use of construction phase SuDS, incorporating appropriate treatment prior to discharge to the water environment. SuDS measures to be installed prior to the main construction activities, including any earthworks. Any runoff from earthworks and stockpiles to be routed through the appropriate construction SuDS measures prior to discharge to the water environment. xi. Excavations to be left open for the minimum period required to avoid ingress of water, minimise erosion and the need for de-watering in compliance with CAR General Binding Rule 11. Drainage or pumping from excavations to be minimised through design. Temporary cut-off drains to be installed, if required to prevent surface water runoff entering excavations. xii. Access tracks to incorporate appropriate drainage measures routed to the construction SuDS measures prior to discharge. xiii. Regular inspection of surface water management measures and maintenance. xiv. Clean runoff from vegetated areas or offsite to be kept clean and diverted around the construction works to avoid mixing with sediment laden water. xv. Oil storage in accordance with General Binding Rules (GBRs) 26, 27, and 28 Provision of spill kits and use of drip trays for any refuelling activities. xvi. Regular inspection and maintenance of vehicles, tanks and bunds.

Mitigation / Enhancement Measure Type	Proposed Measures
	<p>19. Concrete and mortar preparation to be sited on impermeable areas at least 10m away from watercourses or surface water drains.</p> <p>20. Consideration to provision of oil separator if required.</p> <p>21. Adoption of specific management measures for short-term storage and testing of any suspected contaminated material encounter (post remediation).</p> <p>22. Development and implementation of Soil Management Plan (and associated Earthworks and Materials Movement Strategy – see above), including procedures for:</p> <ul style="list-style-type: none"> i. Areas stripped of hardstandings, earth and vegetation will be kept to a minimum at any one time. ii. Soil loss and erosion will be minimised through careful storage, reinstatement and landscaping. iii. Stockpiles will be placed in areas of minimal risk of slippage or erosion from drainage and will not be located within 20m of the ‘West Drain’, Milton Burn or River Clyde. <p>23. Construction site management and activities to be sited and undertaken in accordance with relevant guidance within BS5228-1:2009+A1:2014 to minimise noise and vibration effects.</p> <p>24. Further quantitative noise and vibration assessments to be undertaken as required to inform detailed design at AMSC stage.</p> <p>25. Regular inspection and maintenance of watercourse channels, crossings, flood mitigation assets, surface water drainage infrastructure and SuDS features.</p> <p>26. Discharge of foul effluent to Scottish Water public sewer network for conveyance and treatment by Scottish Water.</p> <p>27. Details of important ecological features/ habitats, if necessary informed by update ecological surveys;</p> <p>28. Details of how important ecological features/ habitats are to be protected including procedures for site clearance, specification for buffer zones and ecological fencing.</p>
<p>Construction Phase Ecological Mitigation Measures (additional to Pollution Prevention)</p>	<p>29. Appointment of ECoW for the duration of construction works to undertake regular monitoring of site operations compliance with nature conservation legislation and policy, as detailed in Chapter 8 - Ecology.</p> <p>30. Above-ground vegetation clearance to be conducted in the winter months under the supervision and guidance of the appointed ECoW.</p> <p>31. Development and implementation of Otter Mitigation Strategy.</p> <p>32. Nesting bird checks prior to vegetation removal.</p> <p>33. Appropriate timing and phasing of noisy construction activities and installation of visual screens and noise barriers to avoid or minimise disturbance to the over wintering redshank and common tern breeding colony and passage/ wintering birds.</p> <p>34. Retained trees on site and those present along the site boundary to be protected through the establishment of appropriate buffer zones during construction in line with BS 5837:2012.</p> <p>35. Implementation of an ecologically informed lighting strategy.</p>
<p>Construction Phase Other Mitigation Measures</p>	<p><u>Proposed Development</u></p>

Mitigation / Enhancement Measure Type	Proposed Measures
	<p>36. Construction activities to be carried out in full compliance with appropriate health and safety legislation, guidance documents and approved codes of practice published by the Health and Safety Executive (HSE).</p> <p>37. Adoption of safe working practices and use of appropriate personal protective equipment (PPE) in accordance with appropriate RAMS</p> <p>38. Development and implementation of Construction Traffic Management Plan (CTMP), to include:</p> <ul style="list-style-type: none"> i. Construction traffic routing, site access/deliveries, parking, contractor management, parking, fuels and materials storage, standard dust and noise suppression techniques, and standard pollution prevention and control techniques. ii. Staff parking and plant/materials storage to be accommodated on suitable land within the site. iii. Measures and procedures to allow for continuity of access along local roads and the NCN7 during construction, as detailed in Chapter 9.
Landscape, Ecology and Heritage Operational Mitigation and Enhancement Measures	<p>39. Incorporation of green buffers and retention and protection of existing vegetation as reflected on Figures 3.1 – Parameters Plan and 3.3 - Indicative Masterplan.</p> <p>40. Development and implementation of detailed Landscape Framework as detailed in Chapters 8 – Ecology and 12 - Landscape and Visual Impacts. This includes measures to underpin the detailed design, construction and operation of the proposed development.</p> <p>41. Sensitive management and enhancement of Milton Burn along the edges of Zone F.</p> <p>42. Identification of trees, tree groups and hedges that require removal, protection for those to be retained close to the works, and proposals for reinstatement</p> <p>43. Maximum height of proposed buildings limited to 11m to minimise visual effects.</p> <p>44. Design features as outlined on Figure 3.3 - Indicative Masterplan.</p> <p>45. Detailed design of proposed buildings and structures to be informed by massing studies, the development of lighting, biodiversity and landscaping strategies, public consultation, and feedback from the West Dunbartonshire Place & Design Panel – as detailed in Chapter 8 – Ecology and Chapter 12 - Landscape and Visual Impacts.</p> <p>46. Development and roads to be set back from listed Dunglass Castle and Obelisk Monument by 15m Green Corridor with tree planting (Zones E and F).</p> <p>47. Programme of archaeological works in Zone F prior to construction – refer to Chapter 13 – Archaeology and Heritage.</p>
Operational Phase Other Mitigation Measures	<p>48. Provision of a 15m wide area of open space along the bank of the Clyde (Zone E) and around the Dunglass Castle and Obelisk Monument (Zone G), with landscape planting as illustrated on Figure 3.3 – Indicative Masterplan.</p> <p>49. Development and implementation of Landscaping Framework, to include appropriate habitat enhancement and features to enhance the site for invertebrates.</p> <p>50. Development and implementation of a Travel Plan to promote sustainable travel choices by staff and visitors.</p>

6.3 Management Plans

6.3.1 As highlighted in bold within **Table 15.1** above, many of the proposed mitigation and enhancement measures will be developed and implemented through a suite of management plans and method statements:

Design and Construction Phase

- Construction Drainage Plan;
- Landscape Framework;
- Otter Mitigation Strategy;
- Construction Environmental Management Plan (CEMP);
- Soil Management Plan;
- Earthworks and Materials Movement Strategy;
- Construction Traffic Management Plan (CTMP);
- Construction Flood Response Plan

Operational Phase

- Energy Strategy; and,
- Travel Plan.

6.3.2 In accordance with the EIA Regulations, it is expected that conditions may be attached to any planning permission granted for the proposed development requiring these plans and statements to be submitted by the Applicant, approved by WDC thereafter implemented during the construction and operational phases of the proposed development as appropriate.

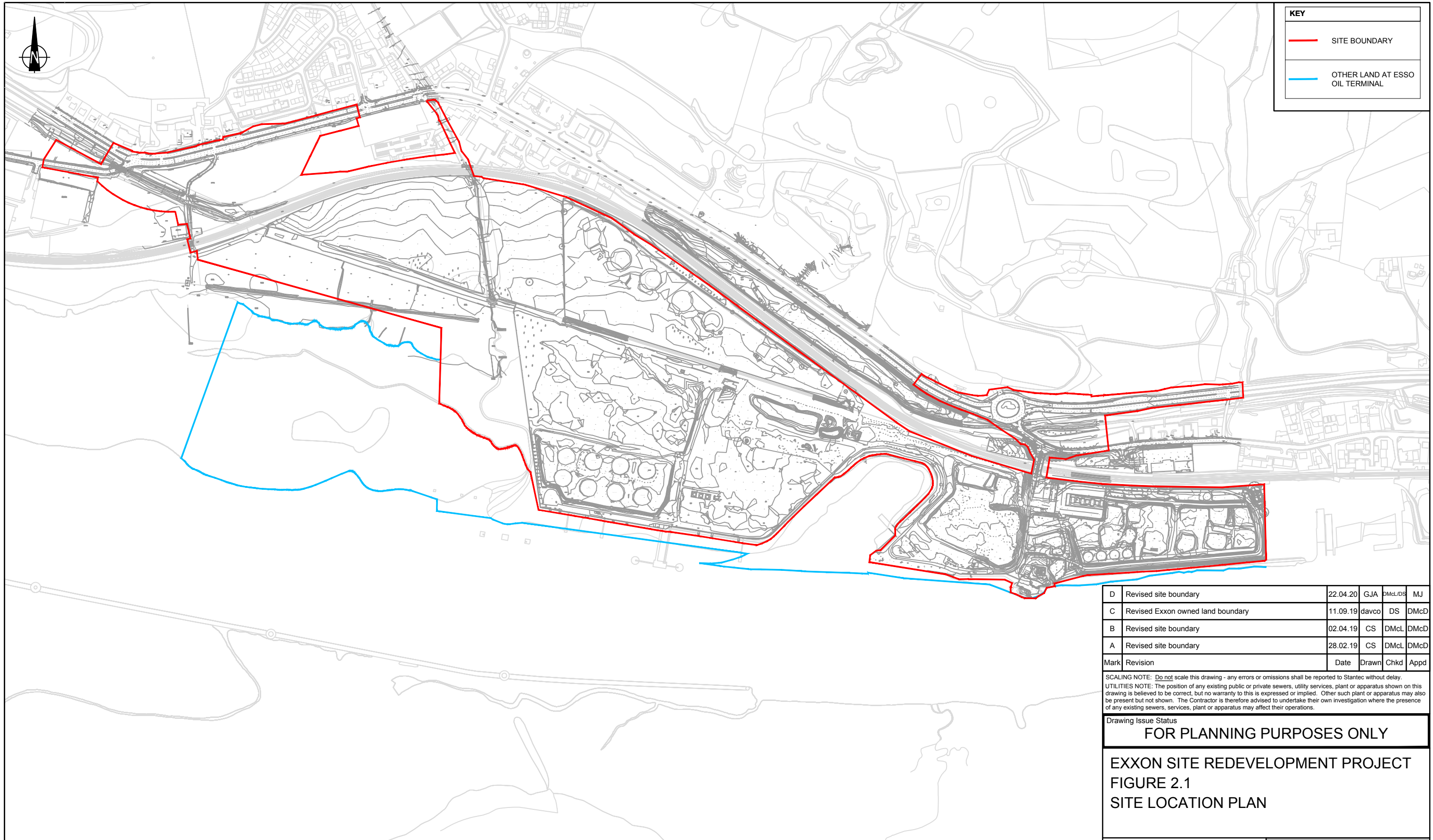
6.3.3 To allow for a potential need to vary the individual measures or procedures detailed in these management plans and statements after their approval (for example, to account for development phasing or to address potential unforeseen changes in site conditions or environmental sensitivities during the construction process), a suitable worded variation clause should be included in all relevant planning conditions. Subject to written consent from WDC, this would enable the above management plans to be varied after their initial approval and thereafter for the revised management plans to be implemented.



6.4 Proposed Monitoring Arrangements

6.4.1 For the reasons detailed in **Subsection X.10** of the technical assessments presented in **Chapters 6 – 13**, no monitoring is considered to be proportionate or required specifically in relation to the likely residual effects of the proposed development.

Appendix A Key EIA Figures

- Figure 2.1 – Site Location Plan
- Figure 2.2 – Cumulative Developments Plan
- Figure 3.1 – Parameters Plan
- Figure 3.2 – Internal Subdivisions Plan.
- Figure 3.3 – Indicative Masterplan




KEY	
	SITE BOUNDARY
	OTHER LAND AT ESSO OIL TERMINAL

D	Revised site boundary	22.04.20	GJA	DMcL/DS	MJ
C	Revised Exxon owned land boundary	11.09.19	davco	DS	DMcD
B	Revised site boundary	02.04.19	CS	DMcL	DMcD
A	Revised site boundary	28.02.19	CS	DMcL	DMcD
Mark	Revision	Date	Drawn	Chkd	Appd

SCALING NOTE: Do not scale this drawing - any errors or omissions shall be reported to Stantec without delay.
 UTILITIES NOTE: The position of any existing public or private sewers, utility services, plant or apparatus shown on this drawing is believed to be correct, but no warranty to this is expressed or implied. Other such plant or apparatus may also be present but not shown. The Contractor is therefore advised to undertake their own investigation where the presence of any existing sewers, services, plant or apparatus may affect their operations.

Drawing Issue Status
FOR PLANNING PURPOSES ONLY

EXXON SITE REDEVELOPMENT PROJECT
FIGURE 2.1
SITE LOCATION PLAN

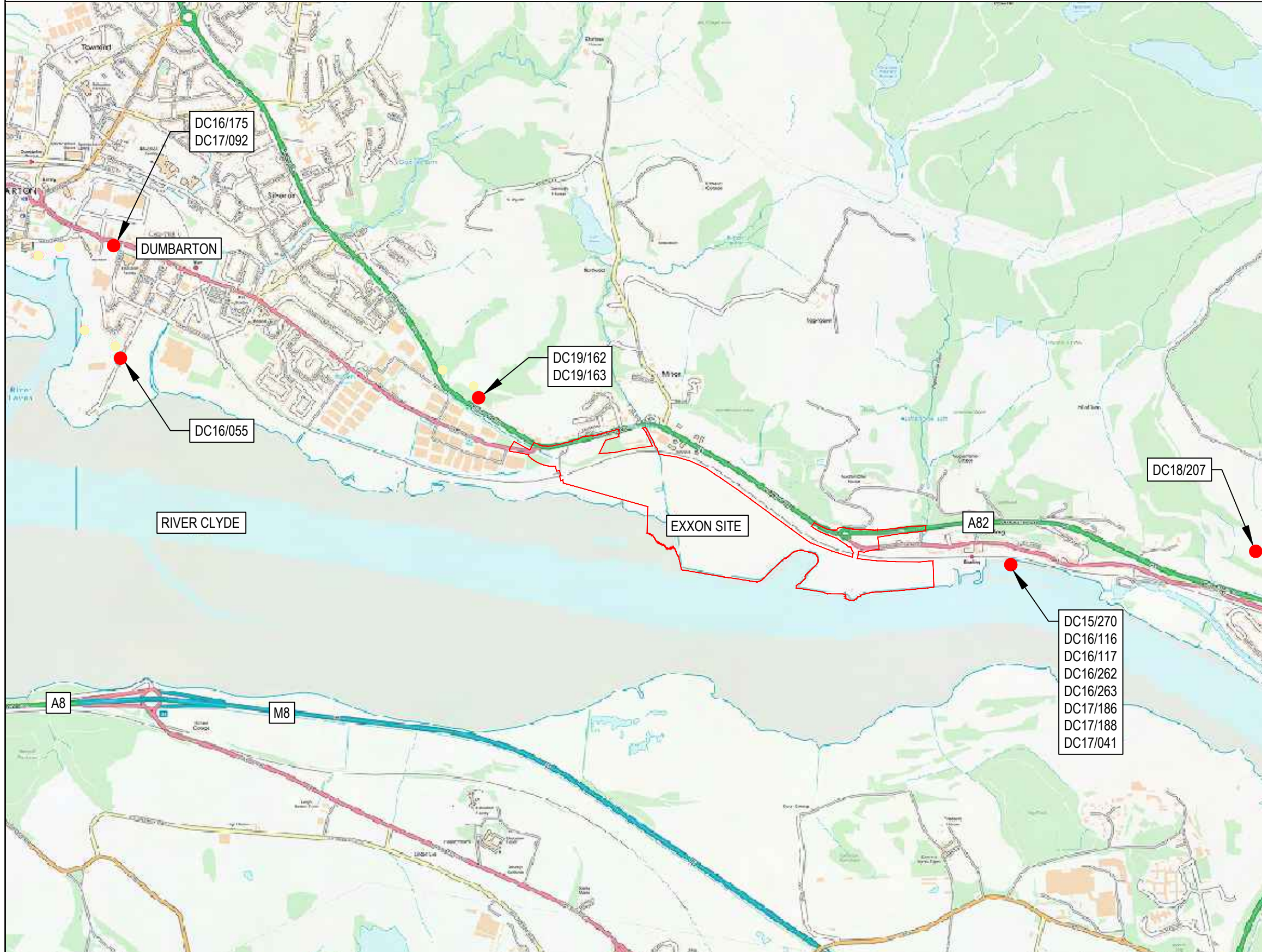
Client		
		
Date of 1st Issue	Designed	Drawn
20.02.19	DMcL	CS
A3 Scale	Checked	Approved
1:6000	DMcD	DMcD
Drawing Number	Revision	
30953/4504/001	D	



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KEY	
	SITE BOUNDARY
	PLANNING APPLICATION REFERENCES

B	Revised site boundary & additional note	22.04.20	GJAC	McL/DS	MJ
A	Revised site boundary	12.09.19	davco	DS	DMcD
Mark	Revision	Date	Drawn	Chkd	Appd

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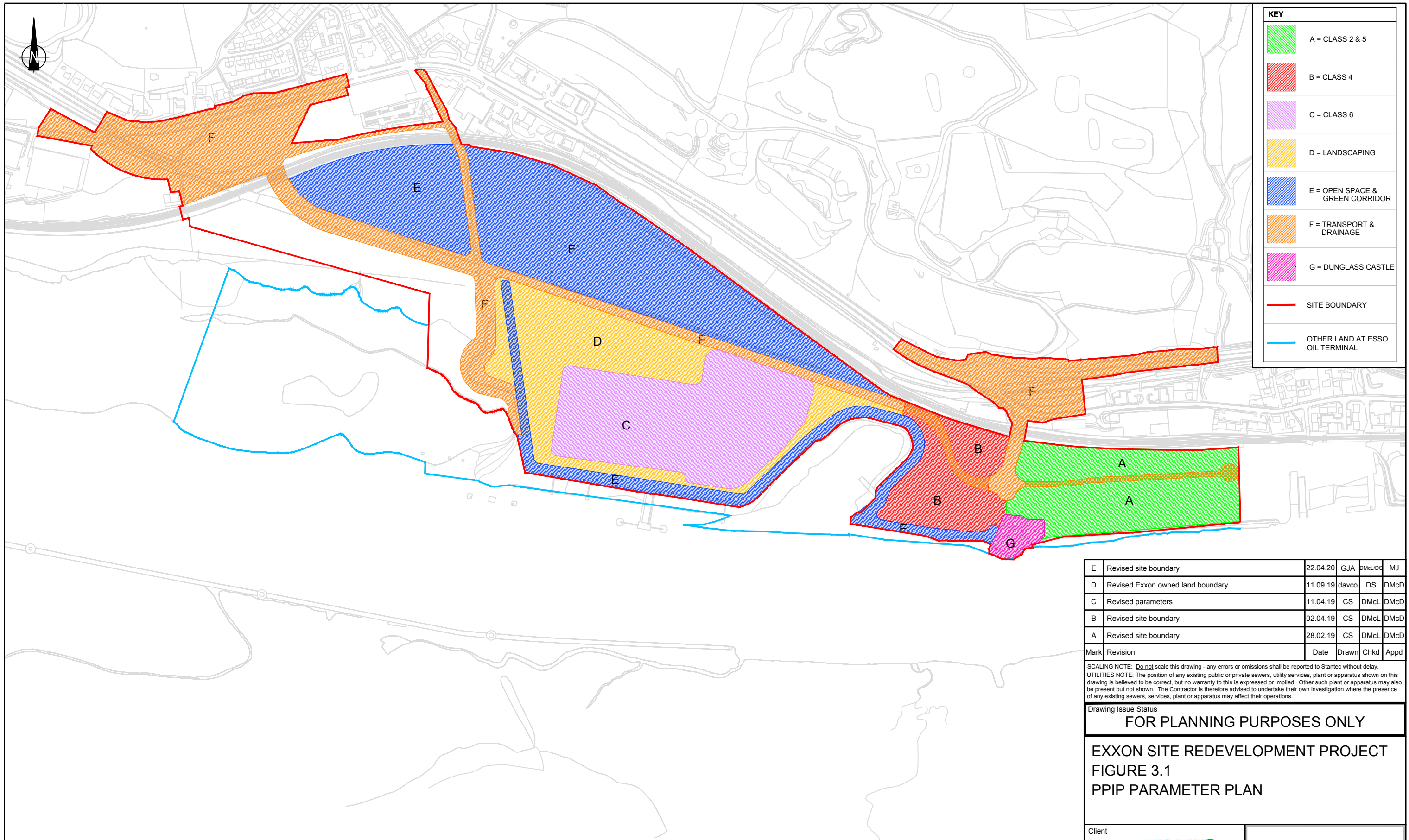
**EXXON SITE REDEVELOPMENT PROJECT
 FIGURE 2.2
 CUMULATIVE DEVELOPMENTS PLAN**



Date of 1st Issue	Designed	Drawn
18.03.19	DMcL	CS
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1:20000	DMcD	DMcD
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E	Revised site boundary	22.04.20	GJA	DMcL/DS	MJ
D	Revised Exxon owned land boundary	11.09.19	davco	DS	DMcD
C	Revised parameters	11.04.19	CS	DMcL	DMcD
B	Revised site boundary	02.04.19	CS	DMcL	DMcD
A	Revised site boundary	28.02.19	CS	DMcL	DMcD
Mark	Revision	Date	Drawn	Chkd	Appd

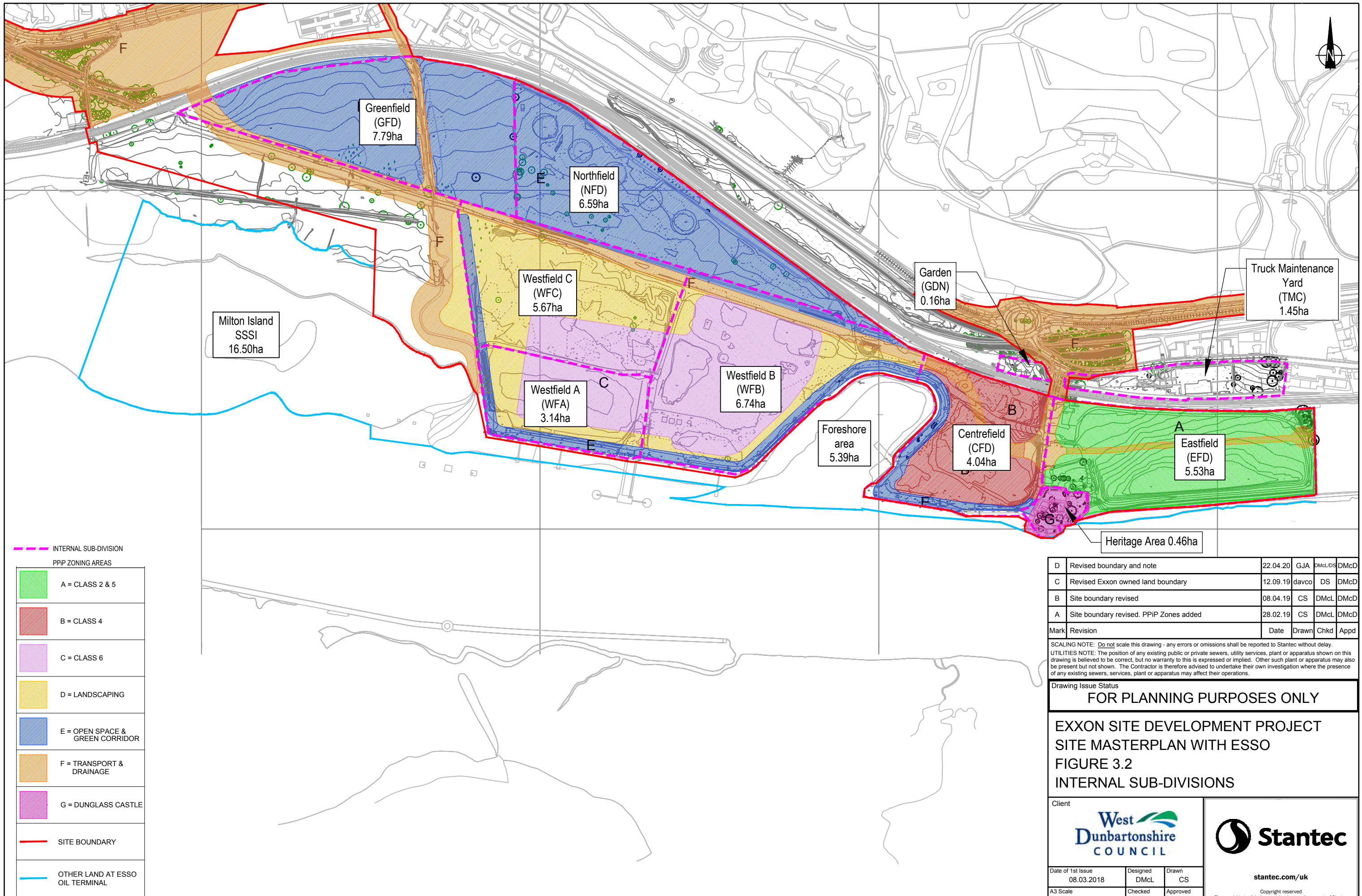
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EXXON SITE REDEVELOPMENT PROJECT
FIGURE 3.1
PIIP PARAMETER PLAN

Client				
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A3 Scale	Checked	Approved		
1:6000	DMcD	DMcD	GLASGOW Tel: 0141 352 2360	
Drawing Number		Revision		
30953/4504/002		E		

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D	Revised boundary and note	22.04.20	GJA	DMcL/DS	DMcD
C	Revised Exxon owned land boundary	12.09.19	davco	DS	DMcD
B	Site boundary revised	08.04.19	CS	DMcL	DMcD
A	Site boundary revised. PPIP Zones added	28.02.19	CS	DMcL	DMcD
Mark	Revision	Date	Drawn	Chkd	Appd

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Drawing Issue Status
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**EXXON SITE DEVELOPMENT PROJECT
 SITE MASTERPLAN WITH ESSO
 FIGURE 3.2
 INTERNAL SUB-DIVISIONS**

Client West Dunbartonshire COUNCIL		
Date of 1st Issue 08.03.2018	Designed DMcL	Drawn CS
A3 Scale 1:5000 @ A3	Checked DS	Approved DMcD
Drawing Number 30953/3503/003	Revision D	

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Appendix D Risk Register

Glasgow City Region City Deal PROJECT RISK REGISTER																						
Project Title:		Exxon Mobile																				
Member Authority:		West Dunbartonshire Council																				
Project Location:		Bowling, Dumbarton																				
Project Sponsor:		Gail MacFarlane																				
Date updated:		Jun-23																				
Risk Ref	Date Identified	Status	Primary Risk Category	Risk Title	Risk Description	Strategic objectives	Risk Owner	Responsible Officer	Inherent Impact	Inherent Probability	Inherent Risk Score	Inherent Rank	Risk Treatment Approach	Controls and Mitigating Action	Residual Impact	Residual Probability	Residual Risk Score	Residual Rank	Date Reviewed	Movement in period	Planned Next Steps for Mitigation	Resources Required
WDC035	25/08/2021	Open	Financial	Inflation	Due to Delays the cost of inflation takes the project over budget	A	WDC - Project Management		4	5	20	Very High		Value engineering process completed and identified £2.26M cost savings, while maintaining the scope and functionality as outlined and agreed in the O&C. Monitoring and management of the project delivery plan, uplifting the budget or rescoping of project parameters if necessary. Depends on Western Underpass construction (timescale some delay might be unavoidable).	4	4	16	Very High	13/06/2023	↔		
WDC042	15/03/2022	Open	Contractual	Exxon Site access	No access before site remediation is fully complete which could delay construction of the Western underpass and potentially other elements of the project.	C	WDC/Exxon		5	4	20	Very High		Site remediation is closely monitored and it is still on target for an end of 2023 site handover, however the work is strongly weather dependent.	4	4	16	Very High	13/06/2023	↔		
WDC032	08/03/2021	Open	Financial	Land acquisition	Acquisition of 3rd party land by Council	C	WDC - Project Management		5	4	20	Very High		Ongoing discussions with individual landowners. Time bound offers or worst case proceed with CPO. Asset team provide regular updates to Project Board on progress.	4	3	12	High	13/06/2023	↓		
WDC032	08/03/2021	Open	PHYSICAL / ASSETS	Land acquisition	Land acquisition of Exxon land and 3rd party land concludes without subsequent funding agreed from City Deal	C	WDC - Project Management		4	3	12	High		Meet all City Deal PMO parameters for achieving funding. Complete and submit FBC to PMO by June 2023. If funding refused WDC need to look into alternative funding, potentially extract work package for LUF application.	4	3	12	High	13/06/2023	↔		
WDC037	25/08/2021	Open	PHYSICAL / ASSETS	Dunglass Castle	Dunglass Castle - Listed Structure will become a WDC asset. Budget does not exist within Capital Project Plan to redevelop this asset.	D	WDC - PM		3	5	15	Very High		Condition/Structural survey has been carried out and the extent of work required identified. Planning and Asset Management to discuss future uses and funding. Consider alternative funding sources i.e. Heritage Lottery Fund. Discussions with Scottish Heritage is ongoing regarding the future conservation and funding opportunities.	3	4	12	High	13/06/2023	↔		
WDC041	14/09/2022	Open	Financial	Land access	Land access agreement to 3rd party land by Council	C	WDC/Landowner		5	4	20	Very High		Agreements reached in principle with all landowners. Legal agreements are progressing, but slowly.	4	3	12	High	13/06/2023	↔		
WDC021	10/10/2018	Open	Contractual	Programme slippage	Programme slippage incurs additional project costs	A	WDC		4	4	16	Very High		Continual monitoring and reviewing of project phasing, risk register and budget.	3	4	12	High	13/06/2023	↔		
WDC001	01/07/2016	Open	FINANCIAL	Benefit realisation of site	Alternative sites are deemed more attractive for development reducing the attractiveness of former Exxon site	A	WDC - Economic Impact (Gillian McNamara)		4	3	12	High		Option appraisal has identified capacity for and attractiveness of former Exxon site as other local development sites are expected to be fully developed over next 10 years.	3	3	9	Medium	13/06/2023	↔		
WDC014	4383	Open	REGULATORY / LEGAL	Technical approvals	Necessary statutory approvals for development cannot be gained or are delayed	C	WDC - Legal (PM / Stanted)		4	3	12	High		We are working very closely with our Planning Service and all relevant statutory bodies to enable timely approvals. Regular reporting of progress within the Council and funders are ongoing. Regulatory Services representatives are on Project Board.	3	3	9	Medium	13/06/2023	↔		
WDC022	10/10/2018	Open	Environment	Flood Risk	Fluvial and coastal flooding identified through SEPA plans. Potential to limit development area and/or increase enabling costs	C	WDC - Environment		4	4	16	Very High		Flood Risk Assessment considered and mitigation strategy completed to maximise development area. Value engineering process reduced hard engineering mitigation options, currently under consultation with SEPA.	3	3	9	Medium	13/06/2023	↔		
WDC023	10/10/2018	Open	Environment	Environmental constraints	Environmental constraints (e.g. SSSI, RAMSAR, Ornithology, SPA) critically limits the extent of and type of development and potentially challenges compound locations for temporary work capacity of the site for development	C	WDC - Environment PM		4	3	12	High		The environmental mitigation measures taken into account of the Masterplan process. Progress project in line with planning conditions as set out in PPP approval.	3	3	9	Medium	13/06/2023	↔		
WDC036	10/10/2018	Open	Contractual	Multiple contractors working on site	Different contractors require to be on site at the same time to ensure the programme is maintained	C	WDC		4	3	12	High		Early engagement with all potential parties to coordinate respective work programmes for construction and remediation staging. Ensure contracts reflect the needs of Exxon/WDC working on the site at the same time.	3	3	9	Medium	13/06/2023			
WDC045	22/06/2022	Open	Contractual	Final Business Case	Final Business Case Submission delay or not approved	C	WDC		5	4	20	Very High		Change request submission to allow FBC preparation approved by City Deal Cabinet on the 8 November 2022. New FBC submission is June 2023.	3	3	9	Medium	13/06/2023	↔		
WDC025	10/10/2018	Open	Contractual	Contractor procurement	Procurement of contractors delays the project	C	WDC/Balfour Beatty pic		3	4	12	High		WDC selected Balfour Beatty Pic under the SCAPE Framework and the contract agreement for Fire remediation phase is now concluded. New resources are allocated for the enabling and construction contract phase.	3	3	9	Medium	13/06/2023	↔		
WDC048	30/03/2023	Open	Regulatory / Legal	Eastern overbridge deck replacement possession time	Separate possession time required by Network Rail to progress with deck replacement	C	WDC/NR		4	3	12	High		The possession time to be progressed once the construction programme is agreed with WDC.	3	3	9	Medium	13/06/2023	New		
WDC49	30/03/2023	Open	Environment	Land acquisition with invasive species	Invasive species to be managed by the council (long term commitment with financial implication and could potentially affect construction)	C	WDC		4	3	12	High		Carrying out surveys and establish ongoing maintenance schedule to manage issue.	3	3	9	Medium	13/06/2023	New		
WDC010	25/08/2017	Open	PHYSICAL / ASSETS	Delay of remediation	Delay to remediation of contaminated land that impacts on the Councils delivery time frame.	C	Exxon		4	5	20	Very High		The Remediation of the Eastern field is completed which enable access to the site and allow partial site take over if construction programme requires. There are contingencies built into the remediation process by Exxon to accelerate progress. The remediation progress is closely monitored and currently it is on target for completion for December 2023.	3	4	12	High	13/06/2023	↔		
WDC50	30/03/2023	Open	People / Societal	Management of people and material to construction site	Creating congestions on A82 and A814 and create public frustrations	C	WDC		4	3	12	High		Contractor is exploring the option to bring some material via the River Clyde. The traffic plan will be submitted to Planning.	3	3	9	Medium	13/06/2023	New		
WDC019	10/10/2018	Open	PROFESSIONAL	Delay of approvals	Council delays decisions on approvals of Business Cases as project progresses.	C	WDC		5	3	15	Very High		The Project Board ensures that the Final Business Case process is clearly defined and implications of time delays on the project are clearly articulated in reports to Council.	4	2	8	Medium	13/06/2023	↔		
WDC008	25/08/2017	Open	FINANCIAL	Insufficient funding	Insufficient funding due to complexity of site.	C	WDC - Project Management		3	3	9	Medium		Value engineering through design process to optimise development. Build development in phases and/or seek additional alternative funding sources i.e. Low Carbon fund, Natural Heritage fund etc. Potential income through sale of development sites not yet factored into Business Case. City Deal Committed £27M and Council have committed £6.5M	3	2	6	Medium	13/06/2023	↔		
WDC018	10/10/2018	Open	Physical / Assets	Infill material	Difficulty obtaining the required volume of material to create the raised development platforms	C	WDC		4	3	12	High		Early identification of potential supplies of suitable materials or phase the raising of platforms aligned with developing out of plots, or pass cost of raised platform to final development customer. Value Engineering has optimised proposed ground levels to reduce quantity of infill material.	2	3	6	Medium	13/06/2023	↔		
WDC044	22/06/2022	Open	Physical / Assets	Access to Western Underpass construction	Access to Western Underpass construction via Eastern overbridge	C	NR/WDC/Esso		5	4	20	Very High		Project Board decided to cancel December 2023 possession date to avoid significant challenges with the personnel access and material delivery via the Eastern Overbridge. The access agreement with Esso would only be agreed if a new haul road was constructed before the construction start (June 2023) for the western Underpass traffic, which was not feasible given the short timescale. New possession date is requested for December 2024.	2	2	4	Low	13/06/2023	↓		
WDC047	30/03/2023	Open	Contractual	Western Underpass	Western Underpass construction contract signed but not able to be delivered	C	WDC		5	5	25	Very High		Project Board decided to cancel December 2023 possession date to avoid significant challenges with this issue.	2	2	4	Low	13/06/2023	↓		
WDC007	25/08/2017	Open	FINANCIAL	Insufficient resources	Insufficient availability of resources for project delivery.	C	WDC - Project Management		3	3	9	Medium		Dedicated Project Manager (Patricia Rowley) appointed within WDC. Scape framework chosen by project board with Design and Build being the desired contractor appointment route.	2	2	4	Low	13/06/2023	↔		
WDC017	10/10/2018	Open	People / Societal	Delay to programme due to Approvals	Delay to programme due to number of Governance levels - Planning, Board, Council, PMO, City Deal Cabinet	C	WDC - Project Management		3	2	6	Medium		The Exxon Project Board is overseeing the internal approval processes and we are closely working with City Deal PMO to meet required deadlines. Project progressing final business case June 2023.	2	2	4	Low	13/06/2023	↔		
WDC031	13/11/2019	Open	REGULATORY / LEGAL	Contaminated land liabilities	Excessive liabilities associated with contaminated land.	C	WDC - Legal (Alan Douglas)		3	3	9	Medium		Remediation responsibilities are confirmed as Exxon's responsibility up to point of land transfer to Council. This will be approved by Regulators (WDC & SEPA). Council's own development proposals will require localised remediation strategy through the planning process.	2	2	4	Low	13/06/2023	↔		

WDC042	14/03/2022	Open	PHYSICAL / ASSETS	Unidentified structures	Unidentified structures may cause issues during and after construction	C	WDC			4	4	16	Very High	The area that ESSO are remediating will be mapped and addressed, the area out with remediation has to be further investigated to reduce risk. The updated obstruction drawings are regularly shared with Balfour Beatty.	2	2	4	Low	13/06/2023	↔
WDC003	01/07/2016	Open	FINANCIAL	Site fails to deliver GVA forecast	Site fails to deliver the desired levels of economic activity and GVA forecast	A	WDC – Economic Impact (Gillian McNamara)			2	2	4	Low	Economic appraisal will be undertaken as detailed plans are developed to ensure that proposals will deliver target outcomes. Early commercial marketing of opportunity will be undertaken.	2	1	2	Low	13/06/2023	↔
WDC009	25/08/2017	Open	PHYSICAL / ASSETS	Infrastructure capacity	Insufficient infrastructure capacity to enable desired quantum of development	C	WDC – Road & Infrastructure (Roads /			2	2	4	Low	Plan infrastructure maximisation strategies into development	2	1	2	Low	13/06/2023	↔
WDC024	10/10/2018	Open	Contractual	Sales of Exon Mobile site to other parties	Sale of site by Exon to other parties rather than West Dunbartonshire Council	C	WDC – Legal (Alan Douglas / Kim McCallum) / Exon			4	1	4	Low	Missives have now been agreed with Exon. Sale by Exon to other parties could only occur following a breach of those missives which is exceedingly unlikely and could be resisted by the Council.	2	1	2	Low	13/06/2023	↔
WDC038	25/08/2021	Open	PHYSICAL / ASSETS	High Voltage cable removal	High Voltage Electrical Supply - To be removed post remediation works with appropriate notices served to Scottish Power	C	WDC – Exo			2	2	4	Low	Raise as an action with Exon at the appropriate point in time.	2	1	2	Low	13/06/2023	↔

CLOSED RISKS																				
WDC 11	25/08/2017	Closed	Environment		Quay Walls require upgrading	C	Exon			3	5	15	Very High	Remedial works implemented to address identified physical defects.	1	1	1	Low	10/10/2018	Closed
WDC012	25/08/2017	Closed	People / Societal		Council elections in May 2017 returns an administration less supportive of City Deal.	A	WDC			3	3	9	Medium	Ensure all members are kept fully informed of the benefits of the project and progress.	1	1	1	Low	10/10/2018	Closed
WDC013	26/08/2017	Closed	Financial	Land value	Land value unknown so impact on negotiations with Exon and impact on distribution of project budget	C	WDC - Capital Investment Team (Victor Francisco Suarez)			4	4	16	Very High	Terms and conditions agreed	1	1	1	Low	10/10/2018	Closed
WDC027	10/10/2018	Closed	Environment	Remediation strategy is not approved	Exon remediation strategy not approved by regulators	C	Exon			5	2	10	High	Exon remediation team ensure remediation meets project and regulatory requirements.	1	1	1	Low		Closed
WDC028	10/10/2018	Closed	Physical / Assets	Building footprints	Building footprints are not achievable within identified platforms	A	Exon			2	3	6	Medium	Masterplan addressed the reformed platforms to create sufficient area	1	1	1	Low	13.11.2019	Closed
WDC 029	10/10/2018	Closed	Environment	Residual liabilities	Residual liabilities associated with transfer of ownership from Exon	C	Exon			4	2	8	Medium	Exon will undertake a programme of remediation works and a Technical Due Diligence has been undertaken and will continue to be updated to ensure liabilities are clearly dealt with in terms of land ownership transfer and future work programme	1	1	1	Low		Closed
WDC004	01/07/2016	Close	Contractual	Land acquisition	Third party parcels of land required for development cannot be acquired on acceptable terms including NR. Discussions with NR Property team ongoing.	C	WDC – Legal (Alan Douglas / Kim McCallum and Michelle Lynn Assets)			5	4	20	Very High	This risk is not relevant as there is no need to purchase land front Network Rail.	1	1	1	Low	15/03/2022	Closed
WDC005	01/07/2016	Closed	Financial	Land value	Land value unknown so impact on	C	WDC – Project			4	4	16	Very High	Terms and conditions agreed	1	1	1	Low	15/03/2022	Closed
WDC006	01/07/2016	Closed	Contractual	Exon Site transfer	Delay to or unacceptable terms for transfer	C	WDC – Legal (Alan Douglas / Kim McCallum and Michelle Lynn Assets)			5	4	20	Very High	Terms and conditions agreed	1	1	1	Low	15/03/2022	Closed
WDC16	10/10/2018	Close	PROFESSIONAL	Technical approvals	Agreement on technical approach with key	C	WDC – Strategic					0	Very High	This risk is considered in WDC08	1	1	1	Low	15/03/2022	Closed
WDC030	13/11/2019	Closed	PROFESSIONAL	Eastern overbridge strengthening	Network Rail require eastern access overbridge to be adopted by West Dunbartonshire Council but bridge may not meet required standards for adoption. Eastern Bridge currently owned by Exon, requires to be procured by WDC, surveys undertaken, and re-strengthened as required.	B	WDC – Road & Infrastructure (Raymond Walsh)					0	Very High	Bridge strengthened to allow sufficient strength during site remediation. Replacement of bridge is agreed for long term access to site.	1	1	1	Low	15/03/2022	Closed
WDC039	25/08/2021	Closed	PHYSICAL / ASSETS	Eastern overbridge strengthening	Balilee Bridge over Railway line - WDC PR to be made aware of its presence as it's a reputational risk to WDC but an operational one to Exon	B	WDC – Robin Abram					0	Very High	Bridge strengthened to allow sufficient strength during site remediation. Replacement of bridge is agreed for long term access to site.	1	1	1	Low	15/03/2022	Closed
WDC040	10/03/2022	Closed	Contractual	Contract agreement between NR & WDC	Contract to be agreed and finalised with Network Rail on western underpass. This agreement affecting NR's ability to appoint suitable subcontractors to design and construct the underpass and it is directly affecting our DBB programme. Possession time cannot be finalise for the Western underpass construction without the finalised Regulatory approval for the overbridge on the underpass; provision of underpass design; and possession for construction of the underpass are delayed by Network Rail	B	WDC/NR			5	4	20	Very High	Raise issue to A Douglas, & Exon Board	1	1	1	Low	22/06/2022	Closed
WDC020	10/10/2018	Closed	Physical / Assets	Underpass regulatory approval	Regulatory approval for the overbridge on the underpass; provision of underpass design; and possession for construction of the underpass are delayed by Network Rail	C	NR/ WDC			5	4	20	Very High	Once the contract will be signed between NR& WDC, the responsibility of complying with the regulations and gaining the approval will be with NR's subcontractors.	4	3	12	High	22/06/2022	Closed
WDC043	13/06/2022	Closed	Contractual	SCAPE Framework Agreement	Framework Agreement expire on the 31 Jan 2023	A	WDC - Legal& Procurement	AT/AD		5	5	25	Very High	power to approve the Contract before 31 Jan 2023	4	3	12	High	22/06/2022	Closed
WDC034	25/08/2021	Open	PROFESSIONAL	Eastern Bridge	Eastern Bridge demolish and rebuild new bridge. Demolition and rebuilding practicalities and cost difficulties.	C	WDC – Road & Infrastructure (Roads)			5	4	20	Very High	Value engineering identified an opportunity to move away from full bridge replacement to a simple deck replacement.	1	1	1	Low	22/06/2022	Closed
WDC036	25/08/2021	Open	Financial	Affect of Brexit & Covid	Material cost increases and delay brought on by Brexit and COVID on the supply chain pressure on manufacture and delivery.	A	WDC – Project Management			4	5	20	Very High	Covid epidemic is now routinely managed in construction sites and until a new national lockdown not considered relevant. The cost increases because of Brexit is now not a new factor.	1	1	1	Low	22/06/2022	Closed
WDC015	10/10/2018	Open	PROFESSIONAL	Unexpected site condition	Detailed design / site investigations reveal conditions that will significantly increase costs or affect project delivery	C	WDC – Site Evaluation PM			4	3	12	High	During the outline design phase a number of site investigation work has been completed. Now moved onto the detailed design and necessary site investigations are programmed into the activities and will be incorporated into the programme and necessary submissions for approvals.	3	3	9	Medium	10/10/2022	Closed
WDC002	01/07/2016	Open	FINANCIAL	Not achieve target GVA	City Deal does not achieve target GVA levels throughout GCR with associated financial impact.	C	City Deal Board			2	3	6	Medium	Work closely with other City Deal partners to deliver projects successfully. Concern over extent of office supply proposed.	2	2	4	Low	13/06/2023	↔
WDC046	24/08/2022	Closed	Contractual	Insufficient time to complete design work due to delayed contract award	There will be insufficient time to complete the design & WDC Planning to consider it and discharge conditions. This could cause considerable delays to project, FBC approval etc.	C	WDC – Exo			5	5	25	Very High	Project Board to oversee design progress and ensure it is meeting expected milestones in the agreed programme.	3	3	9	Medium	13/06/2023	↓

List of Risk Categories for drop down menu

- Objectives & Projects
- Contractual
- Environment
- Financial
- Health & Safety
- Information Technology
- People / Societal
- Physical / Assets
- Political
- Professional
- Regulatory / Legal
- Reputation
- Schedule / Timelines

S to

Take the opportunity

Tolerate

Trust

Transfer

Terminate

Movement in period



Score

- 1
- 2
- 3
- 4
- 5

- Threat to achieving Programme / Project objectives
- Ineffective use or management of contracts leads to increased costs.
- Environmental incidents, water, air, hazardous chemical, and other pollution.
- Financial risks in terms of internal systems, planning, funding etc.
- Health and safety incidents that harm employees / public
- Failure of IT systems, cyber attacks.
- Threats to/from society, groups, public
- Damage to organisation property / assets
- Adverse actions by changes in local and national governments
- Lack or loss of qualified employees
- Changing laws / regulations, liabilities, and commercial disputes
- Negative publicity regarding organisations business practices, whether true or not
- Threats to timelines and agreed critical paths.

Appendix E Benefits Realisation Profile

Description of Benefit	Quantity of outputs to be achieved during project life cycle	Date when outputs to be achieved / realised in full	Outputs to be achieved by May 2019 (Gateway 1)	Outputs to be achieved by May 2024 (Gateway 2)	Outputs to be achieved by May 2029 (Gateway 3)	Outputs to be achieved by May 2035 (Gateway 4)	Assumptions/Comments
Infrastructure Benefits							
Vacant and derelict land brought back into commercial use (hectares)	19.10	By 2026	0	19.10	19.10	19.10	In determining benefits, it is assumed that infrastructure works will start on site in 2023 with work completed in 2026 and plots available for development and occupation from then.
Land remediated (hectares)	19.10	Over a 25-year period	0	19.10	19.10	19.10	Remediation of contaminated land to be complete prior to site acquisition by WDC.
Distribution/manufacturing(sq m) – Total GEA	34,900	Over a 25-year period	0	6,000	25,233	34,900	34,900 sqm post 2035
Office space (sq m) – Total GEA	9,612	Over a 25-year period	0	1,752	9,612	9,612	9,612 sqm post 2035
Public realm new (m ²)	20,000	Over a 25-year period	0	0	20,000	20,000	New public realm space will be created by the project
Transport							
Public road created (m)	1,945	2024		1,945	1,945	1,945	Construction of new spine road through the site to open it up to development.
Public road enhanced (m)	1,320	2024		1,320	1,320	1,320	Construction of enhanced junctions and improved sections of carriageway on A82 and A814.
Cycle route enhanced (m)	475	2024		475	475	475	Realignment of NCN7 cycle route to maintain continuity and enhance safety.
Employment Benefits							
Total Net Direct Construction Jobs	935	Over a 25-year period	0	0	710	935	935 net direct construction jobs post 2035

Description of Benefit	Quantity of outputs to be achieved during project life cycle	Date when outputs to be achieved / realised in full	Outputs to be achieved by May 2019 (Gateway 1)	Outputs to be achieved by May 2024 (Gateway 2)	Outputs to be achieved by May 2029 (Gateway 3)	Outputs to be achieved by May 2035 (Gateway 4)	Assumptions/Comments
created (i.e. direct jobs) at City Region level							
Total Net Direct Operational Jobs at City Region level	970	Over a 25-year period	0	0	180	970	970 net direct jobs post 2035
Total Net Additional Gross Value Added (GVA) at City Region level (£m)			0	£0.00	£60.80	£226.50	£523m GVA post 2035
Environmental Benefits							
Greenspace enhanced or protected (hectares)	27.13	2024	0	27.13	27.13	27.13	The western half of the site is designated as greenbelt and as part of the green network in the LDP. It is assumed this land will be enhanced to improve its amenity prior to development commencing on site.
Land decontaminated (hectares)	19.10	2019	0	19.10	19.10	19.10	Remediation of contaminated land expected to be complete prior to site acquisition by WDC.
Area of land protected from flood (hectares)	24.77	2024	0	24.77	24.77	24.77	The whole site has been identified as potentially susceptible to flooding. It is assumed that flood protection measures will be put in place as part of the implementation of the project
Financial Benefits							

Description of Benefit	Quantity of outputs to be achieved during project life cycle	Date when outputs to be achieved / realised in full	Outputs to be achieved by May 2019 (Gateway 1)	Outputs to be achieved by May 2024 (Gateway 2)	Outputs to be achieved by May 2029 (Gateway 3)	Outputs to be achieved by May 2035 (Gateway 4)	Assumptions/Comments
Leverage - Private sector income secured / levered (Discounted) (£m)	£43.8	Over a 25-year period	-	-	£27.90	£43.80	£43.8 leveraged private sector investment post 2035

Disbenefits

Disbenefit	Description	Options
Disruption to residents and businesses during construction	This is likely to be a temporary dis-benefit and will be managed with careful stakeholder engagement prior to and during the construction period. This will be complemented by detailed construction management plans (a requirement of contractors), a Communications Plan and direct engagement to raise awareness and pick up issues for future learning	Option 1
		Option 4
		Option 5
Loss of public space to development	A loss of public spaces may occur in some instances as areas of the site begin to be developed. Intervention options mitigate this through increased space for pedestrians and cyclists and by affording more direct access to enhanced areas of public space on the waterfront.	Option 1
		Option 4
		Option 5
Traffic disruption: Conflict between motor vehicles (public and private) and pedestrians and cyclists.	A Communications Plan will ensure all parties are aware of plans and project objectives. Design will also be based on evidence i.e. traffic modelling therefore removal of vehicle traffic should be manageable in traffic management terms. Programming of works to avoid issues around works in close proximity, and utilisation of traffic management specialists within the design team.	Option 1
		Option 4
		Option 5

Disbenefit	Description	Options
Increased freight movement along the A82	Despite enhanced infrastructure surrounding and servicing the site, freight traffic as a result of distribution occupiers on the site, will inevitably increase. An increase in this particular type of traffic, brings associated traffic accident risks.	Option 1
		Option 4
		Option 5

Appendix F Additionality

	Leakage			Displacement			Multiplier		
	the Council	City Region	Scotland	the Council	City Region	Scotland	the Council	City Region	Scotland
Retail	15%	5%	0%	15%	35%	50%	1.12	1.20	1.25
Leisure	15%	5%	0%	30%	40%	50%	1.15	1.24	1.30
Food and Drink	15%	5%	0%	15%	25%	50%	1.15	1.25	1.31
Hotel	15%	5%	0%	25%	33%	50%	1.11	1.18	1.23
R & D	20%	10%	0%	25%	33%	40%	1.17	1.28	1.35
Business									
High value sectors	30%	15%	5%	20%	35%	50%	1.28	1.47	1.59
Medium Value Sectors	25%	15%	5%	20%	35%	50%	1.32	1.54	1.67
Low Value Sectors	25%	15%	5%	20%	35%	50%	1.19	1.32	1.40
Industry									
High value sectors	15%	15%	1%	20%	35%	50%	1.38	1.63	1.78
Medium Value Sectors	10%	5%	0%	20%	35%	50%	1.53	1.88	2.10
Low Value Sectors	10%	5%	0%	20%	35%	50%	1.18	1.30	1.37

Additionality factors have been selected based on the level of activity, employment and number of businesses present in each market in each area. Multipliers have been derived for each industry from the Scottish Government Type II Multipliers. The City Region multiplier equates to 80% of the Scottish and the Council multipliers equate to 60% of the City Regions.

Note, multipliers used across key development sites (business and industry medium value) have increased by 12% and 24% respectively. This has increased the number of expected net jobs.

Appendix G Development Plot & Option Timelines

The following assumptions have been used in the Impact Model to convert the Gross External Area (GEA) of each development site associated with the project into Gross Internal Area (GIA) and Net Internal Area (NIA). The value for the GEA of each class is 100% as the building sizes are known.

Use Class	NIA	GIA	GEA
Class 1 Shops	95%	85%	100%
Class 2 Financial and Professional Services	95%	85%	100%
Class 3 Food & Drink	95%	85%	100%
Class 4 Business	95%	85%	100%
Class 5 General Industry	100%	90%	100%
Class 6 Distribution	100%	100%	100%
Class 7 Hotels	95%	85%	100%
Class 8 Residential Institutions	100%	100%	100%
Class 9 Residential	100%	100%	100%
Class 10 Non-residential Institutions	95%	90%	100%
Class 11 Assembly & Leisure	95%	90%	100%

The development timeline of each option – is reported separately.

Appendix H Equalities Impact Assessment

AssessmentNo	737	Owner	rrea
Resource	Regeneration, Environment and Growth		Service/Establishment Regeneration
	First Name	Surname	Job title
Head Officer	Patricia	Rowley	Exxon Site Development
	(include job titles/organisation)		
Members	Ricardo Rea - Performance and Strategy Officer Sharron Worthington - WDC Roads Project Lead Matty Loxton - Stantec Design Lead Patricia Rowley - WDC Capital Projects Manager		
	<i>(Please note: the word 'policy' is used as shorthand for strategy policy function or financial decision)</i>		
Policy Title	Exxon Development Project, Detailed Design and Final Business Case Submission stage of the City Deal Funding		
	The aim, objective, purpose and intended out come of policy		
	To provide transport infrastructure on the Exxon site to stimulate economic growth to and encourage business development and job creation and unlock the wider greenspace associated to the former Esso Oil Terminal to the local community of Milton and Bowling.		
	Service/Partners/Stakeholders/service users involved in the development and/or implementation of policy.		
	Internal Council departments, statutory stakeholders, utility providers, local community, current landowners affected.		
Does the proposals involve the procurement of any goods or services?		Yes	
If yes please confirm that you have contacted our procurement services to discuss your requirements.		Yes	
SCREENING			
<i>You must indicate if there is any relevance to the four areas</i>			
Duty to eliminate discrimination (E), advance equal opportunities (A) or foster good relations (F)		Yes	
Relevance to Human Rights (HR)		No	
Relevance to Health Impacts (H)		Yes	
Relevance to Social Economic Impacts (SE)		Yes	
Who will be affected by this policy?			
People living in West Dunbartonshire, people seeking employment in West Dunbartonshire, people travel through West Dunbartonshire by road or by bicycle, businesses in West Dunbartonshire and West Dunbartonshire Council staff.			
Who will be/has been involved in the consultation process?			
Internal Council Departments, statutory stakeholders, utility providers, local community, current landowners affected.			
Please outline any particular need/barriers which equality groups may have in relation to this policy list evidence you are using to support this and whether there is any negative impact on particular groups.			
	Needs	Evidence	Impact
Age	As part of the Planning Permission	PPIP_DC20/088 There is good	Outdoor space for the local community

	<p>in Principle (PPIP) there is a requirement for further landscape and path development on the wider Exxon site, however the scope for this is outhwith of the City Deal Funding provision. Public spaces need to be safe and accessible for all people There are concerns about loeliness and social exclusion of some older people in Scotland</p>	<p>evidence that intergenerational contact and interculture contact can be of great benefit to both older and younger people</p>	<p>members of all ages. Older people and younger children will be better able to access the area due to improved Road safety and better transport links.</p>
<p>Cross Cutting</p>	<p>WD Local Transport Strategy, Sustainable transport policy</p>	<p>Longer term improved A82 route will particularly benefit groups who rely more on public transport.</p>	<p>The project is improving resilience to the A82 and improve cycle and walking provision through the site.</p>
<p>Disability</p>	<p>The council has a duty in terms of accessibility for disabled people.</p>	<p>The design is being developed in line with current best practice to meet the needs of all users, following 'Design Manual for Roads and Bridges' (DMRB), published by The Stationery Office (TSO) and 'National Roads Development Guide' 2017, (NRDG), published by the Society for Chief Officers of Transport in Scotland (SCOTS). The primary design standard for all cycle infrastructure will be 'Cycling by Design', 2021, published by Transport Scotland. For pedestrian infrastructure, the</p>	<p>A more accessible public space Better transport links, more wheel chair friendly, more friendly to people with other physical impairments, more accessible for those with visual impairments. Reduced noise levels from slower traffic are of benefit to all but may be of particular help to people with some mental health conditions</p>

		<p>primary design standard will be the 'National Roads Development Guide' 2015, (NRDG), published by the Society for Chief Officers of Transport in Scotland (SCOTS). For sections along the A82 to be adopted by 'Transport Scotland Roads for All: Good Practice Guide for Roads', 2013 will be followed.</p>	
Social & Economic Impact	<p>During the construction the contractors will provide social value benefit to the local area (proportionate to their contract value).</p>	<p>Social value added to contracts. The transport infrastructure projects unlock the site economical potential.</p>	<p>School engagements, job creation and upskilling, local foodbank support from involved contractors during site development. Increasing to the resilience of the A82 at this section.</p>
Sex			
Gender Reassign			
Health	<p>Everyone should have as much opportunity as possible to access inclusive public spaces.</p>	<p>WEST DUNBARTONSHIRE COUNCIL Strategic Plan 2022 -2027 More Accessible public spaces can contribute towards better physical and mental health, and reduce social exclusion(Tackling social isolation and loneliness and building stronger social connections)</p>	<p>Benefits are clearly realisable in terms of increased and safer physical activity e.g., walking, cycling and a generally more active travel</p>
Human Rights	<p>As discussed in 'disability' and 'age' section above</p>	<p>As discussed in 'disability' and 'age' section above</p>	<p>As discussed in 'disability' and 'age' section above</p>
Marriage & Civil Partnership			
Pregnancy & Maternity			
Race			
Religion and Belief			

Sexual Orientation			
Actions			
Policy has a negative impact on an equality group, but is still to be implemented, please provide justification for this.			
no			
Will the impact of the policy be monitored and reported on an ongoing basis?			
West Dunbartonshire Council reports to the Glasgow City Region Cabinet on a regular basis.			
Q7 What is your recommendation for this policy?			
Introduce			
Please provide a meaningful summary of how you have reached the recommendation			
EIA 737: The Impact assessment work carried out during the development of this proposal has identified a range of positive impacts, especially for the local community of all ages and abilities by creating green spaces. The transport infrastructure development is also unlocking future potential of the Exxon site to stimulate economic growth to and encourage business development and job creation.			

Appendix I Project Programme

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	2023												2024												2025												2026											
					May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
Exxon Bowling Precon Rev0 26th May 2023		758	28-Feb-23	24-Apr-26	Exxon Bowling Precon Rev0 26th May 2023																																															
KEY DATES		758	28-Feb-23	24-Apr-26	KEY DATES																																															
Contract Dates		701	30-May-23	24-Apr-26	Contract Dates																																															
Scape Project Procurement		79	30-May-23	20-Sep-23	Scape Project Procurement																																															
SC-PR-10040	BB Submit Pre-construction Proposals	0	30-May-23*		BB Submit Pre-construction Proposals																																															
SC-PR-10050*	BB Update Pre-construction Proposals With Developing Design	40	30-May-23	24-Jul-23	BB Update Pre-construction Proposals With Developing Design																																															
SC-PR-10060	Submit Final Pre-construction Proposals	0	25-Jul-23		Submit Final Pre-construction Proposals																																															
SC-PR-10070	WDC Initial Review, Prepare Committee Report & Pre-Agenda Minutes	5	30-May-23	05-Jun-23	WDC Initial Review, Prepare Committee Report & Pre-Agenda Minutes																																															
SC-PR-10080	WDC Submit Report for Committee Meeting & Pre-Agenda Minutes	0	06-Jun-23		WDC Submit Report for Committee Meeting & Pre-Agenda Minutes																																															
SC-PR-10090	Anticipated Planning Approval	0	14-Jun-23*		Anticipated Planning Approval																																															
SC-PR-10100	WDC Committee Meeting / Cabinet Approval	0	28-Jun-23*		WDC Committee Meeting / Cabinet Approval																																															
SC-PR-10110	WDC Finalise Business Case Report for City Deal	12	30-May-23	14-Jun-23	WDC Finalise Business Case Report for City Deal																																															
SC-PR-10120	WDC Submit Final Business Case to City Deal	0	15-Jun-23		WDC Submit Final Business Case to City Deal																																															
SC-PR-10130	City Deal Review & Approvals of Business Case	37	15-Jun-23	04-Aug-23	City Deal Review & Approvals of Business Case																																															
SC-PR-10140	City Deal Approval	0	07-Aug-23		City Deal Approval																																															
SC-PR-10150	WDC / BB Finalise Terms of Delivery Agreement	30	07-Aug-23	19-Sep-23	WDC / BB Finalise Terms of Delivery Agreement																																															
SC-PR-10160	Latest Date for Approval of Planning Application (20th Sep 2023)	0	20-Sep-23*		Latest Date for Approval of Planning Application (20th Sep 2023)																																															
SC-PR-10170	Signed Delivery Agreement	0	20-Sep-23		Signed Delivery Agreement																																															
Contract Start Dates		28	20-Sep-23	30-Oct-23	Contract Start Dates																																															
CSD-10000 CS	CS Contract Start Date Contract Award	0	20-Sep-23		CS Contract Start Date Contract Award																																															
CSD-10010	Minimum Main Works Mobilisation Period	28	20-Sep-23	27-Oct-23	Minimum Main Works Mobilisation Period																																															
CSD-10020	Earliest Start Date TBC	0	30-Oct-23		Earliest Start Date TBC																																															
CSD-10030	Planned Start Date TBC	0	30-Oct-23		Planned Start Date TBC																																															
Contract Completion Dates		30	05-Mar-26	24-Apr-26	Contract Completion Dates																																															
CCD-10000	PC Planned Substantial Completion	0		05-Mar-26	PC Planned Substantial Completion																																															
CCD-10010	Contractor's Terminal Float	30	05-Mar-26	24-Apr-26	Contractor's Terminal Float																																															
CCD-10020	PC Planned Contract Completion	0		24-Apr-26	PC Planned Contract Completion																																															
CCD-10030-CD	CD Specified Contract Completion Date (TBC)	0		24-Apr-26	CD Specified Contract Completion Date (TBC)																																															
CCD-10040	Complete Soft Landscaping Works (Seasonal) TBC	0		24-Apr-26	Complete Soft Landscaping Works (Seasonal) TBC																																															
Access Dates		514	28-Feb-23	13-Apr-25	Access Dates																																															
Access to Areas Outwith Plot		0	30-Oct-23	30-Oct-23	Access to Areas Outwith Plot																																															
AD-10000	Access to West Junction (A82 to Railway)	0	30-Oct-23		Access to West Junction (A82 to Railway)																																															
AD-10010	Access to East Junction (A82 to Railway)	0	30-Oct-23		Access to East Junction (A82 to Railway)																																															
Shared Plot Access		0	30-Oct-23	30-Oct-23	Shared Plot Access																																															
AD-20010	Shared Plot Access Across Existing Eastern Overbridge Permitted	0	30-Oct-23		Shared Plot Access Across Existing Eastern Overbridge Permitted																																															
Exxon Plot Handover		12	22-Dec-23	23-Jan-24	Exxon Plot Handover																																															
AD-20020	Plot Remediation Complete (Access to Eastern Overbridge Available)	0	22-Dec-23*		Plot Remediation Complete (Access to Eastern Overbridge Available)																																															
AD-20022	Prep for Removal of Bailey Bridge - OTHERS	5	22-Dec-23	11-Jan-24	Prep for Removal of Bailey Bridge - OTHERS																																															
AD-20023	ASSUMED Exxon Planned Demobilisation Complete	0	12-Jan-24*		ASSUMED Exxon Planned Demobilisation Complete																																															
AD-20024	ROTR Removal of Bailey Bridge - OTHERS	2	12-Jan-24	15-Jan-24	ROTR Removal of Bailey Bridge - OTHERS																																															
AD-20026	Dismantle & Remove Bailey Bridge From Site - OTHERS	5	16-Jan-24	22-Jan-24	Dismantle & Remove Bailey Bridge From Site - OTHERS																																															
AD-20028	Existing Eastern Overbridge Handed Back to BB	0	23-Jan-24		Existing Eastern Overbridge Handed Back to BB																																															
AD-20040	ASSUMED EXXON / WDC Land Agreement & Plot Access In Place	0	23-Jan-24		ASSUMED EXXON / WDC Land Agreement & Plot Access In Place																																															
AD-20050	ASSUMED PERMITTED Plot Access Across Existing Eastern Overbridge	0	23-Jan-24		ASSUMED PERMITTED Plot Access Across Existing Eastern Overbridge																																															
Access Arrangements		215	28-Feb-23	23-Jan-24	Access Arrangements																																															
AD-70000	Shared Use of Existing East Overbridge	85	30-Oct-23	22-Jan-24	Shared Use of Existing East Overbridge																																															
AD-70005	BB Exclusive Use of Existing East Overbridge	0	23-Jan-24	23-Jan-24	BB Exclusive Use of Existing East Overbridge																																															
AD-70010	Use of New Western Underbridge With Temporary Haul Route	0	28-Feb-23	28-Feb-23	Use of New Western Underbridge With Temporary Haul Route																																															
AD-70030	Use of New Eastern Overbridge Deck With Temporary Surface	0	28-Feb-23	28-Feb-23	Use of New Eastern Overbridge Deck With Temporary Surface																																															
AD-70040	Use of New Western Underbridge on Finished Carriageway	0	28-Feb-23	28-Feb-23	Use of New Western Underbridge on Finished Carriageway																																															
AD-70050	Use of New Eastern Overbridge on Finished Carriageway	0	28-Feb-23	28-Feb-23	Use of New Eastern Overbridge on Finished Carriageway																																															
Eastern Overbridge		1	11-Apr-25	13-Apr-25	Eastern Overbridge																																															
AD-50000	Earliest Date for Eastern Overbridge Demolition	1	11-Apr-25	11-Apr-25	Earliest Date for Eastern Overbridge Demolition																																															
AD-50010	Eastern Overbridge e for Demolition - TO BE CONFIRMED	3	11-Apr-25	13-Apr-25	Eastern Overbridge e for Demolition - TO BE CONFIRMED																																															
Western Overbridge - Standalone - Assumed Story Programme		224	12-Mar-24	17-Feb-25	Western Overbridge - Standalone - Assumed Story Programme																																															
AD-60000	Western Overbridge South Side / Haul Road Handed Over to Railbridge Contractor - AS	0	12-Mar-24		Western Overbridge South Side / Haul Road Handed Over to Railbridge Contractor - ASSUMED BY EXXON / WDC N/A																																															
AD-60010	Western Overbridge Establish / Enable / Construct Bridge / Prep for Install	130	03-Jun-24*	03-Dec-24	Western Overbridge Establish / Enable / Construct Bridge / Prep for Install																																															
AD-60020	Western Overbridge North Side / PUs Handed over to Railbridge Contractor - BY BB	0	01-Oct-24		Western Overbridge North Side / PUs Handed over to Railbridge Contractor - BY BB																																															

Date	Revision	Checked	Approved
26-May-23	Precon Rev 0	NJD	NJD

- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone
- Summary



