AtkinsRéalis

Deposit for Recovery Bespoke Environmental Permit Non-technical Summary and Additional Information

South Tees Development Corporation

January 2025

MAM1-ATK-ENV-FDRXX-RP-EN-000001

FOUNDRY CENTRAL WEST

Notice

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This document has 23 pages including the cover.

Document history

Document title: Deposit for Recovery Bespoke Environmental Permit Non-technical Summary and Additional Information

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Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
1.0	Issue to EA	LW	EU	GB / AH	SB	May 2024
2.0	Boundary update	LW	LW	SB	SB	Jan 2025

Client signoff

Client	South Tees Development Corporation
Project	FOUNDRY CENTRAL WEST
Job number	5223442
Client signature/date	

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1. Introduction

AtkinsRéalis has been commissioned by South Tees Development Corporation (STDC) to apply for a bespoke environmental permit for deposit for recovery. The permit is for activities associated with material recovery which includes the treatment, storage and backfill associated with the construction of a development platform at Foundry Central West, located within the Teesworks site.

The purpose of this document is to provide information to support the application for the environmental permit, provide a non-technical summary of the project and to act as a signpost to supporting information and documents. The following application forms have been completed and are submitted along with the supporting information:

- Part A;
- Part B2;
- Part B4; and
- Part F1.

The supporting information has been written in such a way as to minimise the duplication of information within each document. To achieve this, this non-technical summary presents the contextual elements required for the understanding of the site and the project and should be read prior to reading the other supporting information documentation. Table 1-1 shows the structure of the supporting information and the suggested reading order.

Table 1-1 - Document Suite Structure to Support Permit Application

Suggested Reading Order	Document Title	Document Reference	
1	Waste Recovery Plan [1]	RCOX-ATK-ENV-FDRXX-RP-EN-000001.P1.03	Permit Forms (Parts A, B2, B4, F1)
2	Non-technical Summary and Additional Information [2]	MAM1-ATK-ENV-FDRXX-RP-EN-000001	
3	Conceptual Site Model, Risk Assessment and Environmental Setting and Site Design Report [3]	MAM1-ATK-ENV-FDRXX-RP-EN-000002	
4	Hydrogeological Risk Assessment [4]	10047374-AUK-XX-XX-RP-ZZ-815-01-FCW_HRA	
5	Ecological Risk Assessment [5]	INCA2024-14	
6	Waste Acceptance Procedures [6]	MAM1-ATK-ENV-FDRXX-RP-EN-000003	
7	Environmental Management System Summary [7]	MAM1-ATK-ENV-FDRXX-RP-EN-000004	

Document Signpost

Required reading	This document	Permit additional information documents

2. Terms of Reference

The following terms of reference are used throughout the permit documents. Additional information and context are provided in Table 2-1.

Table 2-1 - Terms of Reference

CEMP	Construction Environmental Management Plan is a requirement to discharge a planning condition for the construction of the development platform. This document assesses the risks to the environment posed by the works and will employ systems and procedures to manage, minimise or mitigate the risks. The CEMP will incorporate the Environmental Management Systems (EMS) requirements required as part of the permit and will align with the governance requirements of the Teesworks Environmental Management System. The CEMP will incorporate any monitoring requirements detailed within the Environmental Risk Assessment and Environmental Setting and Site Design Report MAM1-ATK-ENV-FDRXX-RP-EN-000002, that does not require a monitoring plan. The CEMP will be developed by the contractor once appointed.
Environmental Permit	This bespoke deposit for recovery permit will be referred to within the documents as the “environmental permit”.
Site	Foundry Central West, is as shown on drawing reference TSWK-STDC-FDR-ZZ-DR-C-0019.
South Tees Development Corporation	Applicant / Operator / Producer. South Tees Development Corporation (known as STDC) is part of the Tees Valley Combined Authority, which was set up to regenerate the Teesworks site, driving forward its redevelopment to create jobs, secure investment and transform the region.
Tees Valley Combined Authority	Tees Valley Combined Authority is a Mayoral Development Corporation that includes the following organisations: South Tees Development Corporation, South Tees Site Company and South Tees Developments Limited.
Teesworks site	Name used to refer to the development area of the Mayoral Development Corporation Area which covers 2,600 acres of land to the south of the River Tees.
Development Platform	Enabling works undertaken by STDC to construct a platform for development of use by a future tenant. The earthworks include remediation, utility connections and placement of subbase for road construction etc.
Material Recovery	Term used to describe the permitted activity, which consists of the whole recovery operation, including preparation for backfilling (treatment, sampling and storage) and backfilling. Material Recovery has been achieved at the point of recovery.

Treatment	Term used to describe the material processing to enable its suitability for backfilling. This will be a mixture of crushing, screening, blending and stabilisation as required.
Waste	Term used to describe the waste, during its excavation and storage, prior to waste acceptance.
Material	Term used to describe the material following waste acceptance which is being treated, stored or backfilled during material recovery.
Backfilling	Term used to describe the placement of material in accordance with the Earthworks Specification [8] and therefore has been accepted as suitable for recovery for its intended use as set out by the waste recovery plan.
Recovery	The point at which the waste has been placed in the ground in accordance with the Earthworks Specification [8]. At this point the material is considered to be recovered, and material recovery is complete.
Non hazardous	Within this document, reference to non hazardous waste, as defined in WM3 [9].

3. Non-Technical Summary (Part B2, 5c)

3.1 Site Description

Foundry Central West (known as the site) is a land parcel within the Teesworks site which is located across the Redcar, Lackenby, Grangetown and South Bank conurbations of the Borough of Redcar and Cleveland. It is set within the wider industrial area known as 'South Tees'. A drawing showing the site location within the wider context of the Teesworks site is presented on TSWK-STDC-FDR-ZZ-DR-C-0018. The River Tees is located approximately 390 m to the south of the site at its closest point the North Sea is approximately 1.2 km to the north.

There is a 2.4 m high metal palisade fence around the wider Teesworks site to prevent unauthorised access. Access to the Teesworks site is via a manned security gate at Steel House with vehicle registration plates recorded to verify entry to the site. Site security operate 24 hours a day and there is CCTV in operation across the wider site. Access to the Foundry Central West site is via the internal road network. The main roadway is 'Red Main' which runs east-west across the northern section of the site and 'Blue Main' which runs to east-west just to the south, outside the site boundary. There are currently no additional security measures to access Foundry Central West, however, measures will be implemented prior to works starting to prevent unauthorised access. At its closest point, the site is approximately 50 m from the wider Teesworks Site boundary to the west.

The Foundry Central West site comprises of a land parcel approximately 20 hectares (ha) in size and centred at approximately 455939, 525336 (Ordnance Survey National Grid). Previously occupied by the Redcar Steelworks, the site is rectangular in shape except for the southern boundary, which is staggered. The plot is within a wider hub of interlinked green energy projects that includes hydrogen manufacturing facilities, a power station and carbon capture site that are proposed to be built on adjacent plots.

Recent demolition works have removed the majority of above ground and below ground structures that were associated with the former Redcar Steelworks. The site surface comprises of a mix of rubble, bare ground and grassy areas. Some relic structures remain, with basements, ramps, earth landforms and internal roadways still present at the site. The demolition works included the isolation and removal of redundant services, and it is not anticipated that live services are present on the site. The site is relatively flat but with hollows formed where relic foundations have been demolished and the excavation made safe with general backfilling and graded sides.

3.2 Site History

Arcadis completed a Desk Study [10] for the site, including a review of the site history based on a Groundsure report, historical Ordnance Survey maps, and plans provided by STDC.

The site was originally mudflats and marshland of the River Tees estuary. Land reclamation works to raise the ground levels creating developable land began in the 19th and 20th century, with the majority of the site reclaimed in the 1970's. Reclamation materials predominantly consist of slag-rich material and other materials generated as a by-product from the sites historical use as an iron and steel works. Other materials such as river dredgings (known as Sand Fill) is also known to have been excavated from the River Tees and placed on site.

The site was subsequently developed to include the former Redcar steelworks, which was operational between 1980 to 2015. The site historically included numerous buildings, associated infrastructure and stockpiles related to the former steelworks; including the Redcar Coke Oven, Coal Blending Plant, Flux Bunkers, Ore Bunkers and associated hoppers, chimneys, sub-stations and conveyor infrastructure.

Drawing 1004737-AUK-XX-XX-DR-ZZ-729-01-FCW identifies former process areas on the site. Specific areas of the site contained:

North side above Red Main	Coke Ovens No 1 Battery, Coke Ovens No 2 Battery and Flare Stack
South-western side	Coke Crushing Plant, Ore blending/Handling
South-western and southern side	Railway lines for movement of material

3.3 Project Outline

Regeneration of the former Redcar Iron and Steel works site is being undertaken in accordance with the South Tees Regeneration Masterplan [11]. This targets the attraction of green energy producers and advanced manufacturers to bring highly skilled employment and economic growth to the Tees Valley whist designed to play a vital role in decarbonising the UKs economy and commitments to achieving NetZero.

Currently the site is earmarked for the construction of a data centre which itself is part of a wider hub of interlinked green energy projects that includes other hydrogen manufacturing facilities, a power station and carbon capture site that are proposed to be built on adjacent sites.

To facilitate the site's regeneration, a 20 hectares (ha) development platform is to be created to provide an area of land that is suitable for the subsequent industrial / commercial development by a future tenant in line with the Masterplan [11]. Crucially this will provide a site where legacy environmental and geotechnical risks have been reduced and therefore greatly improving the suitability of the site for future development. This will include the creation of a running surface layer to support future construction undertaken by a future tenant.

An outline planning application (reference R/2020/0821/ESM) for the development of general industry and storage with office accommodation has been approved by Redcar and Cleveland Borough Council that covers this and other sites within the Foundry area of the Teesworks site.

The permit being applied for covers the construction of a development platform, including earthworks and remediation undertaken by STDC. Further development of the site by a future tenant is excluded from this permit application.

3.4 Development Platform Design

The development platform also referred to as an earthworks envelop is designed to remove a number of constraints that impede the sites redevelopment and the buildability of the proposed structures and utility / transport connections. Many of these constraints relate to legacy risks associated with the Teesworks sites former use, such as geotechnical and environmental risks but they also include foreseeable future risks such as those from flooding. Other requirements are to facilitate the buildability of future structures including the associated utility and logistical networks that are required to tie into the site.

In summary these requirements include:

- remediation of the earthworks envelope in accordance with the Earthworks Specification [8] and Remediation Strategy [12];

- earthworks envelope constructed in accordance with The Manual for Contract Documents for Highway Works (MCHW), Specification for Highway Works (SHW) series 600 (2017) as amended by the Earthworks Specification Foundry Central West [8];
- laterally the Earthworks Envelope is defined as the lease boundary plus a 5m working buffer as shown on Drawing TWSK-STDC-FDR-ZZ-DR-C-0019;
- vertically the earthworks envelope is defined as the 2.5m of material below the set site final finish level;
- the earthworks envelope must be free from remaining relic below ground structures and foundations, fused slag obstructions, voids and material non-compliant with current earthworks standards, the earthworks and remediation strategies and designed and constructed in alignment with the Waste Framework Directive waste hierarchy;
- removal of structures or gross contamination which extend beyond 2.5m below the final finished level will be required where the lateral or vertical extent of the structure would materially restrict development options. The extent of additional removal will be determined on a case-by-case basis; and
- finished level of 7.10 m above ordnance datum (AoD).

3.5 Development Platform Construction

To create the development platform at the site, remaining below ground structures that were not part of the previous demolition works require removal to a minimum depth of 2.5m below the final finish design level of 7.1 m AoD. This is to create a zone (also referred to as the earthworks envelope) below the site that is free of physical obstructions such as foundations and basements that will then enable a tenant to undertake their future construction without encountering historical obstructions. Where these structures are found to extend beyond 2.5m below the final platform level these will be assessed on a case-by-case basis to determine whether further excavation and removal is required.

Where an unacceptable risk of gross contamination to either human health, buildings and other property and the environment is identified, this will be managed and mitigated in line with the approved Remediation Strategy [12] as required by the existing planning conditions (condition 15). Where gross contamination extends beyond 2.5m below the final platform level remedial works may require excavation below 2.5m in line with the remediation strategy.

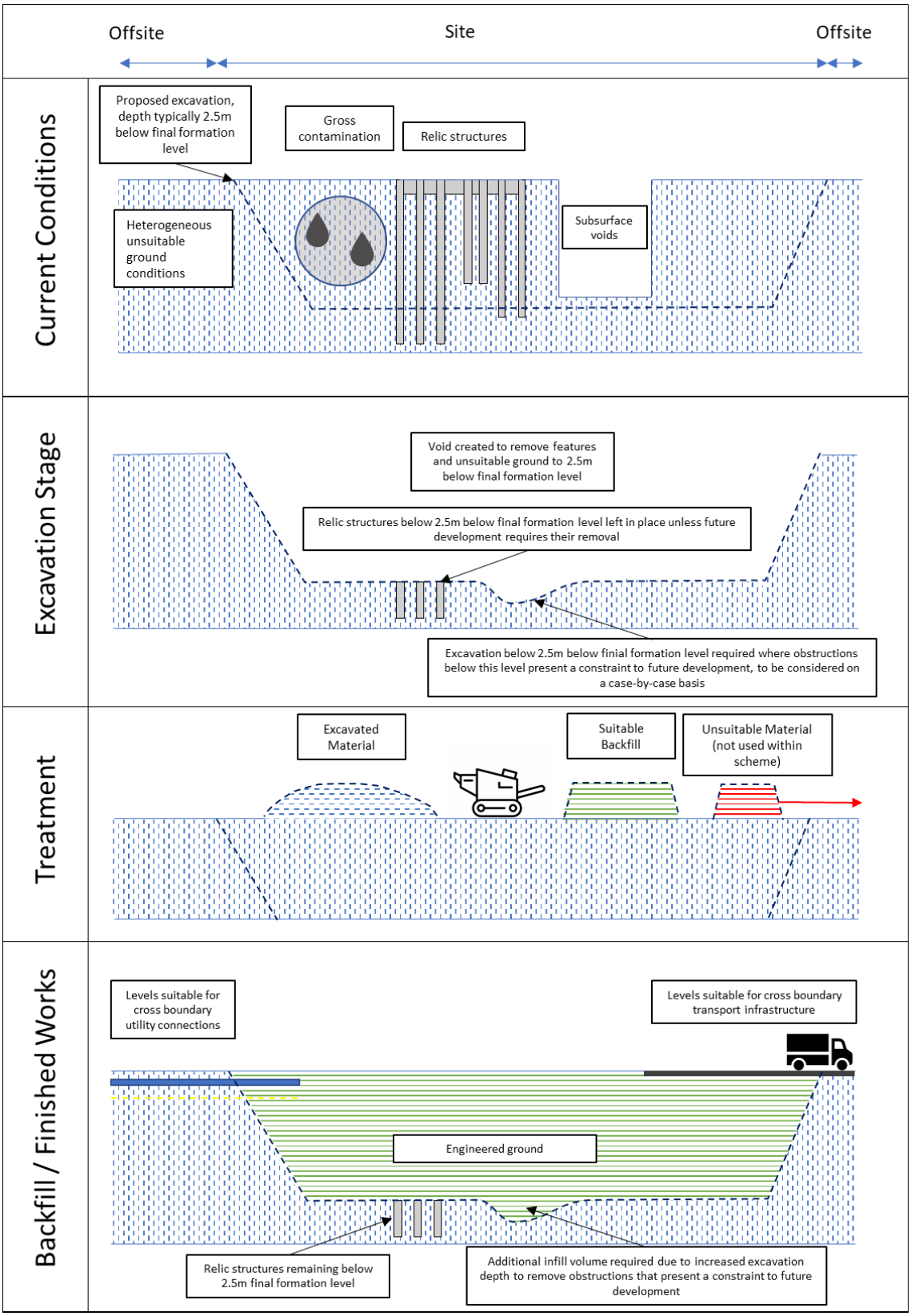
Within the earthworks envelope, it is proposed to excavate Made Ground to 2.5 m, process it to make it geotechnically suitable and place as engineering fill to construct the development platform. Non-hazardous wastes are to be recovered, substituting non-waste materials that would otherwise be needed to construct the development platform. The majority of the material recovery will be derived from suitable Made Ground excavated at the site but waste and material from the wider Teesworks site will also be used in backfilling where suitable site won material is unavailable to supplement the required material volume. Unsuitable materials are not to be used within the project and will be discarded applying the waste hierarchy to these wastes as set out in the Waste Framework Directive.

To recover the waste, as a suitable substitute, meeting the required specifications, the excavated material will require treatment (a mixture of crushing, blending, screening and stabilisation as required) as detailed in the Waste Recovery Plan [1]. Treated material used for backfilling will then be used to construct the development platform design. Backfilling will be in accordance with the Waste Acceptance Procedures [6].

The location of the permit activity (treatment, storage and material recovery) will encompass the entire Foundry Central West site (TSWK-STDC-FDR-ZZ-DR-C-0022). The mechanism for the treatment, storage and backfilling of material is a bespoke deposit for recovery environmental permit, which this document suite supports. The volumes of material are detailed in Section 3.6.

Upon completion of the works the site surface will be suitable for foot and light vehicular traffic, at a level of 7.1 m AOD (+ / - 50 mm), tied into the surrounding internal road network and utilities, suitable for the tenant's development. A broad schematic of the proposed works in shown in Figure 3-1 below:

Figure 3-1 - Schematic of Proposed Works to Create a Development Platform



Note: Stages shown above are illustrative of the process and may not represent the overall stages of work, with excavation and backfilling in different areas of the site occurring simultaneously.

The potential impacts of climate change has been considered as part of the flood risk assessment and associated planning permission for the construction of the development platform. The agreed recovery level of 7.1m AOD reflects the desire to ensure that rising sea and river levels does not impact on the future development.

3.6 Waste Volumes and Tonnage

The Waste Recovery Plan [6] details the justification for the material volume required and includes a cut and fill assessment. The assessment shows that 547,441 m^3 of waste will need to be excavated and replaced with approximately 602,195 m^3 backfill material to meet the required development platform design.

Where treatment timescales limit the availability of acceptable material for backfilling, material from the wider Teesworks site will be used providing that it aligns with the Earthworks Specification [8] and Remediation Strategy [12] and subject to being acceptable in accordance with the Waste Acceptance Procedures [6].

Surplus waste will be removed from the site and managed in accordance with current waste legislation.

All material quantities used within the engineering design and cut and fill are calculated in cubic metres, however for the requirements of the permit these quantities require conversion to weight in tonnes. Table 3-1 presents the conversion factors that are to be used during the project to determine the weight of materials.

Table 3-1 - Volume to Weight Conversion Table

Material	Density (kg/m^3)	Comment
Pre excavated Made Ground and construction / demolition materials	2000	Standard density used for these material types at Teesworks
Stockpiled Made Ground and construction / demolition materials	1400	Density accounts for the bulking of material (30%) within stockpile following excavation
Recovered material on placement	2150	Increase in density due to compaction that is to be achieved on placement

Waste acceptance quantities will be reported to the Environment Agency in tonnage based on stockpile volumes, at point of the waste being accepted for backfilling.

Applying these conversion factors to the fill volumes, approximately 1,294,719 tonnes of backfill material will be required to meet the required development platform level of 7.1m AOD. This total tonnage should be regarded as an estimate, as the density of material on compaction may vary, and could lead to a greater tonnage being required, to meet the volume of material required.

4. Environment Agency Pre-Application Advice (Part B2, 1a)

Enhanced pre-application advice has been sought with the Environment Agency regarding agreement that the construction of the development platform at Foundry Central West can be considered recovery under reference number EPR/NP3022SA/P001.

Advice and discussions regarding this application for a bespoke deposit for recovery application are continuing under this reference and a service user agreement, which has been set up between the Environment Agency and STDC.

5. Site Condition Report (Part B2, 5b)

The Environment Agency have confirmed that a Site Condition Report is only required to cover areas of the permit where recovery is not being undertaken. As the entire permit boundary will be subject to recovery, a Site Condition Report is therefore not required for this permit application.

6. Technical Guidance Notes (Part B4, 3a)

The permit will be undertaken in compliance with the following documentation regarding the Teesworks site that has been provided during discussions between the Environment Agency and AtkinsRéalis:

Waste basic additional pre-application advice for Deposit for Recovery (DfR) sites	WasteDfRAdditionalPreAppAdvice – Version 1.0 25/10/2021
Permit Variation Application – New bespoke deposit for recovery permit	GOTnewDfREnhPreAppAdvice – Version 3.0 22/02/2022
Letter to J Colam (AtkinsRéalis) from A MacIntyre (Environment Agency) 'South Tees Development – covering High Tip, Warrenby and ex SLEMS Landfills'	EPR/KP3790ZE/V003, EPR/LB3408KJ/A001 & EPR/TP3109LG/V002 02/08/2022
Permit Application – Deposit waste into water under a landfill or deposit for recovery operation	GOTTiptoWaterEnhPreAppAdvice – Version 1.1 30/09/2022
Permit Surrender Application – Bespoke deposit for recovery permit	GOTDfRSurrenderEnhPreAppAdvice – Version 2.0 13/12/2022
Email from A Watts (Environment Agency) to S Bullock (AtkinsRéalis)	Pre-app advice foundry and steel house 25/09/23 16:04
Nature and Heritage Conservation Screening Report: Bespoke Waste	EPR/NP3022SA/P001 24/01/2024
Email from S Franklin (Environment Agency) to S Bullock (AtkinsRéalis) 'Foundry central west RvD Assessment	EPR/NP3022SA/P001 08/03/2024 14:23
Email from S Franklin (Environment Agency) to S Bullock (AtkinsRéalis) RvD advice Letters – Teesworks Environmental Permitting - Recovery vs Disposal assessment of a waste recovery plan Environmental Permitting - Recovery vs Disposal assessment of the substitution element of a waste recovery plan	EPR/NP3022SA/P001 26/07/2024 17:04

Email from S Franklin (Environment Agency) to S Bullock (AtkinsRéalis) – Pre-application review of Foundry Central West application	EPR/NP3022SA/P001 16/07/2024 17:36 17/07/2024 15:44

In addition, the permit will also be undertaken with reference to the below:

- Waste Recovery Plan, AtkinsRéalis, 2025 [1]
- Waste Classification: Guidance on the classification and assessment of waste Technical Guidance WM3 Waste_classification_technical_guidance_WM3.pdf (publishing.service.gov.uk);
- Waste Acceptance Procedures, AtkinsRéalis, 2025 [6] ;
- Non-hazardous and inert waste: appropriate measures for permitted facilities - Guidance - GOV.UK (www.gov.uk) (relevant sections only);
- Develop a management system: environmental permits - GOV.UK (www.gov.uk);
- Summary of Environmental Management System, AtkinsRéalis, 2025 [7] ;
- Construction Environment Management Plan (to be developed by the Contractor following tender award and submitted under planning);
- Risk assessments for your environmental permit - GOV.UK (www.gov.uk); and,
- Waste recovery plans and deposit for recovery permits - GOV.UK (www.gov.uk)

7. Document Directory

A number of separate documents support the permit application and Table 7-1 provides details of those documents along with the permit application form title and question each document is being submitted under.

Table 7-1 - Document Directory

Name / Purpose	Reference	Parent Document	Author	Permit application form and question reference
Reports (in recommended reading order)				
Waste Recovery Plan [1]	RCOX-ATK-ENV-FDRXX-RP-EN-000001	N/A	AtkinsRéalis	Part B4: Appendix 2
Deposit for Recovery Bespoke Environmental Permit Non-technical Summary and Additional Information [2]	MAM1-ATK-ENV-FDRXX-RP-EN-000001	N/A	AtkinsRéalis	Part B2: 1, 3b, 5c
Conceptual Site Model, Risk Assessment and Environmental Setting and Site Design Report [3] including groundwater monitoring plan	MAM1-ATK-ENV-FDRXX-RP-EN-000002	N/A	AtkinsRéalis	Part B2: 6 Part B4: 2 Part B4: 4 Part B4: Appendix 2
Hydrogeological Risk Assessment [4]	10047374-AUK-XX-XX-RP-ZZ-815-02-FCW_HRA	N/A	Arcadis	Part B4: Appendix 2
Ecological Risk Assessment [5]	INCA2024-14	N/A	INCA	Part B4: Appendix 2 Environmental Setting and Site Design Report and Risk Assessment

Name / Purpose	Reference	Parent Document	Author	Permit application form and question reference
Waste Acceptance Procedures [6]	MAM1-ATK-ENV-FDRXX-RP-EN-000003	N/A	AtkinsRéalis	Part B4: Table 1b Part B4: Appendix 2
Permit Activity Flow Chart / Process Flow Diagram / Block Diagram for Operating Standards [6]	MAM1-ATK-ENV-FDRXX-RP-EN-000003	N/A	AtkinsRéalis	Part B4:3 Part B4: 4 Part B4: Appendix 2 Waste Acceptance Procedures
Environment Management System Summary [7]	MAM1-ATK-ENV-FDRXX-RP-EN-000004	N/A	AtkinsRéalis	Part B2: 3d
Supporting documents				
Remediation Strategy [12]	10047374-AUK-XX-XX-DR-ZZ-735-02-FCW-ROA&S	N/A	Arcadis	Part B2:5b Site Condition Report
Earthworks Specification [8]	10047374-AUK-XX-XX-RP-ZZ-831-02-FCW	N/A	Arcadis	Part B4: Appendix 2 Waste Recovery Plan
Desk Study [10]	10047374-AUK-XX-XX-DR-ZZ-735-02	Environmental Setting and Site Design Report and Risk Assessment [3]	Arcadis	Part B4: Appendix 2
Groundsure Report (Desk Study Input)	GS-5ZB-C5M-F7Z-9U2	Desk Study Appendix D [10]	Groundsure	Part B4: Appendix 2
Drawings				
Site Location Plan	TSWK-STDC-FDR-ZZ-DR-C-0018	N/A	STDC	Part B4:4 Environmental Setting and Site Design Report and Risk Assessment
Site Setting	10047374-AUK-XX-XX-DR-ZZ-729-01	Hydrogeological Risk Assessment [4]	Arcadis	Part B4:4 Environmental Setting and Site Design Report and Risk Assessment

Name / Purpose	Reference	Parent Document	Author	Permit application form and question reference
Site Layout Plan / Site Surface Plan / Utilities Plan	TSWK-STDC-FDR-ZZ-DR-C-0017.RevB	N/A	STDC	Part B2: 5a Part B4:4 Environmental Setting and Site Design Report and Risk Assessment
Site Infrastructure Plan / Activity Layout Plan / Remediation Phasing Plan	TSWK-STDC-FDR-ZZ-DR-C-0022	N/A	STDC	Part B2: 3d Environment Management System Part B4: 4 Part B2: 6 Environmental Setting and Site Design Report and Risk Assessment
Emissions sources, receptors and monitoring points	TSWK-STDC-FDR-ZZ-DR-C-0023	N/A	STDC	Part B2: 6 Part B4: 2 Part B4: Appendix 2 Environmental Setting and Site Design Report and Risk Assessment
Exploratory Hole Locations	10047374-AUK-XX-XX-DR-ZZ-769-01	Phase 1 Desk Study [10]	Arcadis	Part B2: 6 Environmental Setting and Site Design Report and Risk Assessment
Regional Geology	GS-5ZB-C5M-F7Z-9U2	Groundsure Report [10]	Groundsure	Part B2: 6 Environmental Setting and Site Design Report and Risk Assessment
Surface Water Features	10047374-AUK-XX-XX-DR-ZZ-842-01	Hydrogeological Risk Assessment [4]	Arcadis	Part B2: 6 Environmental Setting and Site Design Report and Risk Assessment

Name / Purpose	Reference	Parent Document	Author	Permit application form and question reference
Geological Cross Sections	10047374-AUK-XX-XX-DR-ZZ-809-01 BH4-BH26; BH7-BH6; BH7-BH35; BH35-BH15	Hydrogeological Risk Assessment [4]	Arcadis	Part B2: 6 Environmental Setting and Site Design Report and Risk Assessment
Local and Regional Hydrogeology	10047374-AUK-XX-XX-DR-ZZ-842-01 And 10047374-AUK-XX-XX-DR-ZZ-829-P1 And 10047374-AUK-XX-XX-DR-ZZ-830-P1	Hydrogeological Risk Assessment [4]	Arcadis	Part B2: 6 Environmental Setting and Site Design Report and Risk Assessment
Groundwater Monitoring Boreholes	10047374-AUK-XX-XX-DR-ZZ-1036-01	Hydrogeological Risk Assessment [4]	Arcadis	Part B2: 6 Part B4: Appendix 2 Environmental Setting and Site Design Report and Risk Assessment

8. Assessments Summary

Table 8-1 - Document Conclusions

Document Name	Document Reference	Conclusions
Waste Recovery Plan [1]	RCOX-ATK-ENV-FDRXX-RP-EN-000001	Justification that the re-use of Teesworks-won material is recovery and that a deposit for recovery permit is suitable for the works. The decision for recovery was confirmed by the Environment Agency on 26 July 2024. A revised boundary and updated Waste Recovery Plan was submitted to the Environment Agency on 20 January 2025.
DfR Bespoke Permit Non-technical Summary and Additional Information [2]	MAM1-ATK-ENV-FDRXX-RP-EN-000001	This document. Summary of information location and permit application interaction between documents. Inclusion of a non-technical summary of the project, and a detailed technical description of the works.
Conceptual Site Model, Environmental Setting and Site Design Report and Risk Assessment [3]	MAM1-ATK-ENV-FDRXX-RP-EN-000002	The conceptual site model identifies the nearest people and environmental receptors. The risk assessment identifies nuisance and respirable fugitive dust to human health receptors as having a moderate/low risk of impact. This document details how any identified pollutant linkages will be managed during the works in alignment with the remediation strategy. The report identifies that there is only one amenity monitoring plan required, associated with the groundwater risk. All other risks such as noise and dust will be assessed and detailed within the CEMP as a construction led management and mitigation.
Hydrogeological Risk Assessment [4]	10047374-AUK-XX-XX-RP-ZZ-815-02-FCW_HRA	The HRA assesses the risk to geological and controlled waters receptors from the permitted activity. Outcome of the HRA will be fed into the groundwater monitoring plan and Waste Acceptance Criteria which is detailed within the Waste Acceptance Procedures
Ecological Risk Assessment [5]	INCA2024-14	The ERA identifies that the risk to the SPA/RAMSAR is considered to be low. Mitigation measures in the form of bird nest check prior to works commencing, survey for invasive species, measures to prevent mammals from being trapped in excavations will be implemented. The prevention of contaminants from migrating to the SPA will be assessed as part of the HRA. Dust management will be assessed and documented within the CEMP.
Waste Acceptance Procedures [6]	MAM1-ATK-ENV-FDRXX-RP-EN-000003	List of accepted waste codes, Waste Acceptance Criteria and the process for implementing acceptance for material recovery which includes crushing,

Document Name	Document Reference	Conclusions
		blending, screening and stabilisation, as required and storage and backfilling.
Environment Management System Summary [7]	MAM1-ATK-ENV-FDRXX-RP-EN-000004	Summary of management and mitigation of environmental risks in accordance with the governance outlined in the Teesworks Environment Management System. Detail of requirements for site specific elements, as part of the permit, to be included in the Construction Environmental Management Plan (CEMP). This includes a stockpile management plan. Note that the permitted works will be programmed by the contractor, who will determine the order of excavation and recovery, but the works will encompass the entire site.

9. References

[1] AtkinsRéalis, Waste Recovery Plan RCOX-ATK-ENV-FDRXX-RP-EN-000001.P1.05, 2025.

[2] AtkinsRéalis, Non-technical Summary and Additional Information MAM1-ATK-ENV-FDRXX-RP-EN-000001, 2025.

[3] AtkinsRéalis, Conceptual Site Model, Risk Assessment and Environmental Setting and Site Design Report MAM1-ATK-ENV-FDRXX-RP-EN-000002, 2025.

[4] Arcadis, Hydrogeological Risk Assessment 10047374-AUK-XX-XX-RP-ZZ-815-01-FCW_HRA, 2025.

[5] INCA, Ecological Risk Assessment INCA2024-14, 2024.

[6] AtkinsRéalis, Waste Acceptance Procedure MAM1-ATK-ENV-FDRXX-RP-EN-000003, 2025.

[7] AtkinsRéalis, Environmental Management System Summary MAM1-ATK-ENV-FDRXX-RP-EN-000004, 2025.

[8] Arcadis, Earthworks Specification 10047374-AUK-XX-XX-RP-ZZ-831-02-FCW, 2024.

[9] Environment Agency, “Waste Classification Technical Guidance,” October 2021. [Online]. Available: https://assets.publishing.service.gov.uk/media/6152d0b78fa8f5610b9c222b/Waste_classification_technical_guidance_WM3.pdf. [Accessed 20 January 2025].

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