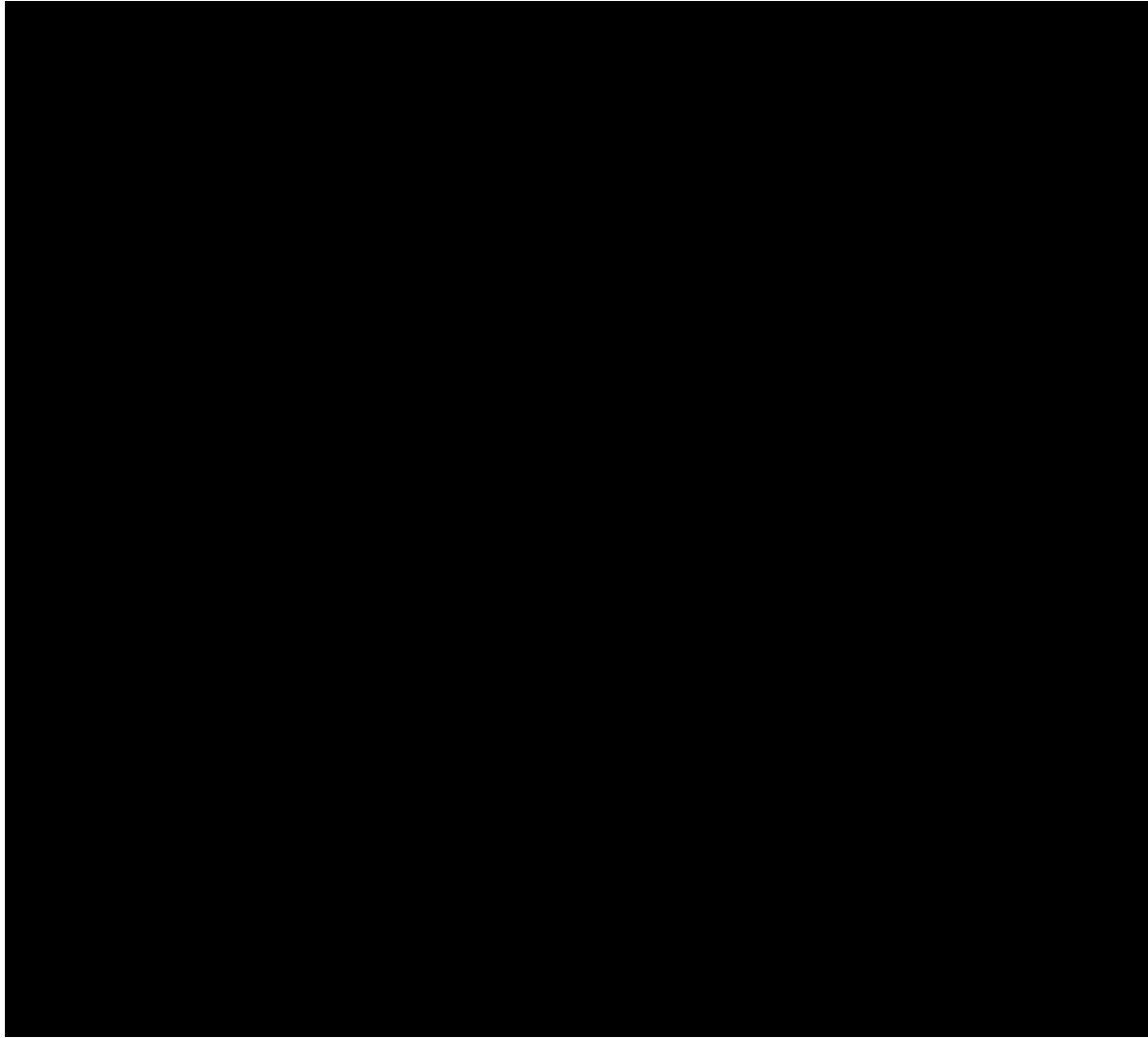


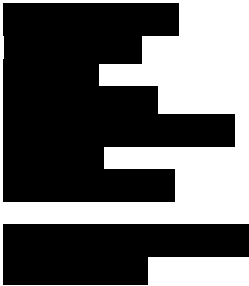


Whitfield Growth Options R3

Benchmark Report

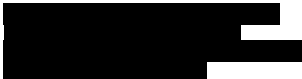
September 2025

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Whitfield Growth Options R3
Benchmark Report

September 2025



Issue and Revision Record

Revision	Date	Originator	Checker	Approver	Description
1	28/08/2025	██████████	██████████	██████████	First Issue
2	10/09/2025	██████████	██████████	██████████	Updated to align with R3 Southern Water Estimates

Document reference: 870523

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Executive Summary

Southern Water commissioned ██████████ to undertake a benchmarking exercise aimed at enhancing confidence in the anticipated costs associated with each of the six proposed options for the Whitfield Growth scheme.

Version 2 of this report has been issued following the removal of Additional Project Related Costs (APRCs) from the SWS Estimates, which has consequently led to their exclusion from the ██████████ Benchmark. The Contractor & Client Indirect Costs, Risk Allowance and Corporate Overheads were also updated in the SWS Estimates.

Southern Water's Cost Intelligence Team (CIT) has provided the scope and corresponding cost estimates for each of the six proposed options.

Each estimate incorporates the following cost components:

- **Net Direct Works Costs**
- **Contractor & Client Indirect Costs**
- **Risk Allowance**
- **Corporate Overheads**

The total estimated project cost for each option, as provided by Southern Water, is outlined below:

- Option 1 – Broomfield Bank: ██████████
- Option 2 – Dambridge Wingham: ██████████
- Option 2A – Dambridge MBR: ██████████
- Option 3 – Ground Discharge: ██████████
- Option 4 – Coastal Discharge: ██████████
- Option 5 – River Discharge: ██████████

A benchmark of the direct costs was required to ensure that the current project cost expectations are appropriately in line with the wider industry, and to create more confidence by reducing uncertainty levels.

As discussed with Southern Water, this benchmark was carried out using a top-down (TD) estimating approach and is based on the information provided by Southern Water CIT which is referenced in **Appendix A**.

██████████, for which ██████████ could be benchmarked, achieving **91.55%** coverage of the direct work scope items across all options. For the ██████████ indicating a variance of **0.51%**. Options 1, 2A, and 4 exhibit a positive variance, indicating that the estimate scope costs are higher than the benchmark figures. In contrast, Options 2, 3, and 5 show a negative variance, where benchmark costs exceed the corresponding scope costs for these items. **Table 1.1** shows additional detail.

This approach was necessary for elements with insufficient detail to support benchmarking, including bespoke items and general allowances.

██████████, which is ██████████ lower than the ██████████ provided by CIT. This represents a **0.47%** variance, indicating that the client's scope costs are marginally higher than the benchmark. This small difference suggests that the Direct Works costs for the Whitfield scheme options are broadly aligned with industry standards based on the scope provided.

A summary of the differences between the total benchmark costs and the total client estimate costs for each option is presented in **Table 1.2**. This comparison highlights the impact of risk and indirect cost assumptions on overall project cost projections.

As illustrated in **Table 1.2** the costs in the scope and benchmark align closely across the direct and indirect works. These cumulatively total ██████████ and ██████████ respectively and exhibit a variance of **1.32%**. However, there is a significant deviation between the scope and benchmark

costs when the risk is considered, which accounts for [REDACTED] of the cost differential between the overall project totals and switches the variance to **-11.05%**. This indicates the potential for a shortfall in funding, and it is recommended that further analysis of the risk be undertaken to improve confidence in the accuracy of the estimate.

1 Introduction

In accordance with the scope, [REDACTED] has developed an independent benchmark that captures the estimated base, lower and upper interval costs for each of the Whitfield Growth Options.

The benchmark has been developed using information provided by Southern Water CIT for each of the Whitfield Growth Options. Full details of the documentation provided can be found in **Appendix D**, and the assumptions and clarifications required to translate this into a benchmarkable scope in Appendix A.

The objective was to develop a robust benchmark using a hybrid estimation approach. For most scope items a benchmarking approach was implemented based on top-down industry models. In instances where a top-down approach could not be applied, where possible, complex elements and custom/bespoke assets were costed using a bottom-up estimating approach. In instances where neither a top-down nor bottom-up approach were appropriate, costs were substituted from the CIT scope using a 'like-for-like' approach.

We have developed benchmarks for all six of the Whitfield Growth Options:

- Option 1 - Broomfield Bank
- Option 2 - Dambridge Wingham
- Option 2A - Dambridge MBR
- Option 3 - Ground Discharge
- Option 4 - Coastal Discharge
- Option 5 - River Discharge

Each benchmark includes Direct Works Costs, Contractor & Client Indirect Costs, an allowance for Risk and Corporate Overheads.

The maturity level of the project definition deliverables has been set at an AACE Class 3 level of estimate confidence. The [REDACTED] has assessed the confidence range at a 75th percentile.

To further improve estimate confidence, additional project data, detailed design development, and confirmation of the preferred construction strategy will be required. These inputs will enable the production of a higher confidence estimate and benchmark in future phases.

The lower interval is provided to manage stakeholder expectations. Historically, project costs rarely decrease significantly, as additional risks and mitigation measures tend to emerge as the project progresses.

This report discusses the benchmarking methodology, key assumptions, and presents indicative CAPEX (Capital Expenditure) costs for all scope elements, as summarised in the Total Cost Summary (**Table 1.2**).

It is important to note that the current confidence range is based on the existing scope and should not be interpreted as the maximum potential cost variation. Future revisions should be reassessed based on the prevailing design, phasing, constraints, and available information at the time of review.

Finally, it should be noted that a detailed risk analysis to determine cost contingency has not been undertaken at this stage. Any changes to pricing assumptions may impact the viability of the current confidence range.

2 Estimate Overview

This report has been commissioned to establish a benchmark based on the scope of works provided by Southern Water. The benchmark estimate is underpinned by the scoping and estimation assumptions developed by Southern Water's Design Team (ETS and SWS Professional Services Consultant (██████████)).

All benchmark costs have been prepared in Pound Sterling (£ GBP) and are indexed to the third quarter of 2022. To ensure regional accuracy, a location factor has been applied to align the benchmarked costs with construction pricing norms in the South (East) region.

2.1 Scope of Works

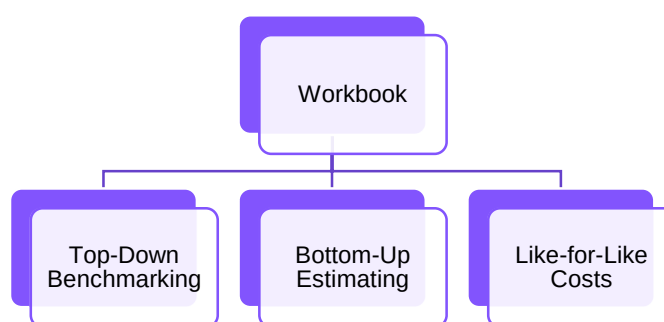
The Whitfield scheme is outlined in the following document provided by Southern Water:

- A8-0074-870523 – Whitfield Option 1 Broomfield Bank R2.xlsm
- A8-0075-870523 – Whitfield Option 2 Dambridge Wingham R2.xlsm
- A8-0077-870523 – Whitfield Option 2A Dambridge MBR R2.xlsm
- A8-0078-870523 – Whitfield Option 3 Ground Discharge R2.xlsm
- A8-0079-870523 – Whitfield Option 4 Coastal Discharge R2.xlsm
- A8-0080-870523 – Whitfield Option 5 River Discharge R2.xlsm
- Whitfield R3 Summaries

2.2 Estimating Methodology (Direct Costs)

The scope documents for each option were reviewed and incorporated into our benchmarking model to enable a structured comparison of direct work costs. The model consists of several workbooks that are completed using a hybrid estimation approach.

Figure 2.1: Hybrid Estimation Approach



The Net Direct Cost is defined as the supply, site installation and construction cost which is directly attributable to the provision of a new capital asset.

The scope of work considered within this exercise is based upon the documents provided. To undertake this exercise, cost models and data from the ██████████ internal cost database have been used to generate a comparable benchmark.

The benchmark costs have been derived using the scope items, quantities, yardsticks and drivers to ensure alignment with the scope costs. These have been assessed using the provided preliminary information, no drawings were provided.

To normalise the costs, the scope costs and outputs have been inflated to the agreed-upon price base of **2022 Q3** using the **CPIH** inflation index. Additionally, a location factor has been applied to normalise the effects of regional purchasing power.

2.2.1 Top-Down Equipment Level Cost Models

To generate a comparable benchmark, we used ██████████ sector cost database calculated using industry cost models that have been aligned to the scope of work for the top-down approach. These models are predominantly at asset and equipment level and have been aligned in accordance with the scope item description where possible.

The benchmarks have been generated using the ██████████ benchmarking tools to ensure consistency of benchmarking across the scopes and allow for instantaneous normalisation of cost models.

Where possible, costs have then been presented alongside the **75th** percentile confidence upper and lower intervals to give insight as to whether the scope costs fall within a reasonable range. If the benchmark is not formulated of sufficient sources to create a confidence interval, **+/-25%** has been applied to the benchmark cost instead. The variance between the scope and benchmark costs have been presented with respect to the benchmark, to support the key findings. Models that fall consistently outside of the benchmark across the scopes have been highlighted, as well as schemes that differ drastically overall.

Scope items that have been estimated using this approach represent **86.39%** of the direct works.

2.2.2 Bottom-Up

Where appropriate benchmark curves were not available or applicable to the scope, bottom-up estimates were carried out to ensure coverage of all required elements. In such instances, assumptions were made regarding component sizes, durations, and construction methods based on engineering judgement and experience from similar projects.

This approach enabled the development of indicative costs in areas where detailed design information was lacking, while maintaining alignment with industry norms and Mott MacDonald's internal cost intelligence.

Scope items that have been estimated using this approach represent **5.13%** of the direct works.

2.2.3 Like for Like

Where scope for which a benchmark could not be generated using top-down or bottom-up methods, costs have been taken forward from the CIT estimate as a like-for-like substitution to allow for a complete direct works estimate to be generated. This is then used for a comparable indirect costs and risk analysis.

Typically, these scope items had insufficient detail, cost information or are bespoke items within the Southern Water CIT estimates. In total there are 69 scope items that have been estimated using the 'like-for-like' approach representing **8.49%** of the direct works. Further details on significant items are provided in the table below. These items are defined as like-for-like entries ██████████ and collectively represent **83.64%** of the total value:

Table 2.1: Like for Like Scope Breakdown

Scope Item	Client Option	Scope Cost	% Benchmark Direct Works	Justification for 'Like for Like' Approach
Building Modifications	1			Insufficient scope & non-comparable costs for these modifications.
RC Concrete Piling Capping Beams	1			No comparable costs for this scope.
Infill Slabs to Roof beams	1			No comparable costs for this scope.
Removal of lamella No 1 Odour Cover	1			No comparable costs for this scope.
Removal of lamella No 2 Odour Cover	1			No comparable costs for this scope.
Removal of lamella No 3 Odour Cover	1			No comparable costs for this scope.
Removal of lamella No 4 Odour Cover	1			No comparable costs for this scope.
MBR	2A			Southern Water estimate of this item based on a lump sum quotation with no scope.
Odour Control Facility	3			Southern Water estimate for this item based on a different site.
Odour Control Facility	4			Southern Water estimate for this item based on a different site.
Odour Control Facility	5			Southern Water estimate for this item based on a different site.

Source:

2.3 Client and Contractors Preliminaries (Indirect Costs)

The benchmark has been built-up using net direct works and indirect costs which form the Overall Project Total of the estimated costs.

Indirect costs are defined as a cost that cannot be directly allocated but can be apportioned to direct cost centres. The indirect cost elements are based on the estimated durations over the assumed schedule and site activities associated with the direct works as identified.

To develop an understanding of the all-in scope costs, indirect costs have been applied on top of the net direct works benchmark. Most water companies differ in their indirect costing approach, so have incorporated indirect cost data from six water companies into a standardised industry average, which have been applied as multipliers to the net direct works.

A contractor indirect cost multiplier of **0.475** was applied to the Net Direct Works to outline the Tender Total. To incorporate the client indirect costs & account for corporate overheads a multiplier of **0.500** was applied to the Net Direct Works to give a Project Total.

Table 2.2: Indirect Cost Multipliers

Net Direct Cost Benchmark		
Contractor Indirect Costs (Multiplier)	0.475	
Tender Total (Incl. Contractor Indirect Costs)		
Client Indirect Costs – Incl. Corp Overheads (Multiplier)	0.500	
Overall Project Total (Incl. Indirect Costs & Corp OHs)		

Source:

2.4 Percentage Allowances (Indirect Costs)

Percentage allowances for risk (where applicable) have been calculated against the Project Total cost elements to provide an Overall Project Total cost. To calculate this, a risk percentage has been generated according to the ██████████ High-Level Risk & Estimating Uncertainty Matrix (detailed in **Appendix E**) that can account for the level of design definition and subsequent risk across design areas. This produced an overall Risk percentage of **23.80%**.

Table 2.3: Risk Costs

Overall Project Total (Incl. Indirect Costs & Corp Overheads)		██████████
Risk	24%	██████████
Overall Project Total (Incl. Indirect Costs, Corp Overheads & Risk)		██████████

Source: ██████████

2.5 Corporate Overheads

Corporate overheads have been applied in the same manner as the client and contractor overheads. Most water companies differ in their indirect costing approach, so ██████████ have incorporated indirect cost data from six water companies into a standardised industry average, which have been applied as multipliers to the Net Direct Works. In this instance the corporate overhead costs are included in the client indirect costs multiplier.

3 Basis of Benchmark

3.1 Cost Benchmark Base Date

The base date for the estimate is **Q3 2022**.

3.2 Cost Benchmark Currency

The estimate base currency is in Great British Pound (**GBP / £**).

3.3 Estimate Uncertainty / Risk Allocation

A detailed risk analysis has not been carried out on this cost estimate. We have used a High-Level Risk & Estimating Uncertainty Matrix produced by ██████████ to calculate a risk percentage.

The matrix considers the following: -

- Design Definition
- Ground Conditions
- Other Services
- Delays
- Working Access / Conditions
- Environmental Constraints
- Power Upgrade
- Planning Permission
- Land Acquisition / Compensation
- Systems Integration

The maturity level of the project definition deliverables has been set at an AACE Class 3 level of estimate confidence. The High-Level Risk & Estimating Uncertainty Matrix percentages have been applied on this basis.

Table 3.1: AACE Class Definition

	MATURITY LEVEL OF PROJECT DEFINITION (Expressed as % of complete definition)	END USAGE Typical purpose of estimate	METHODOLOGY Typical estimating method
Class 5	0% - 2%	Concept Screening	Cost/length factors, parametric models, judgment, or analogy
Class 4	1% - 15%	Study or feasibility	Cost/length, factored or parametric models
Class 3	10% - 40%	Budget authorisation or control	Semi-detailed unit costs with assembly level line items
Class 2	30% - 75%	Control or bid/tender	Detailed unit cost with forced detailed take-off
Class 1	65% - 100%	Check estimate or bid/tender	Detailed unit cost with detailed take-off

Source: AACE 18r-97 Cost Estimate Classification Matrix for the Process Industries.

3.4 Inflation

To normalise the costs, the scope costs and the outputs have been inflated to the agreed upon price base of **2022 Q3** using the **CPIH** inflation index.

3.5 Location

Location has also been factored into this estimate through the application of a location factor derived from the **BCIS Construction Index (2024)**. This adjustment normalises the effects of regional variations in purchasing power and construction costs.

By applying this factor, all costs have been aligned to reflect conditions specific to the **South East** region, ensuring consistency and comparability across the estimate.

3.6 Quantification

Quantities used in this estimate have been derived from the scope information provided by Southern Water, supplemented by verbal communications and clarifications from the project team. Where applicable these sources are referenced throughout this document.

In instances where quantification details were unclear or incomplete, reasonable assumptions have been made to support the estimating process. These assumptions are documented in Appendix A for transparency and traceability.

3.7 Design

Design-related elements, including those associated with temporary works, have been incorporated within the indirect cost components of the estimate. This ensures that all necessary design inputs required to support construction activities are accounted for within the overall project cost.

3.8 Contractors, Overhead and Profit

A multiplier of **0.475** has been applied to the Net Direct Works. This multiplier accounts for contractor indirect costs, including overheads and preliminaries.

Note: Risk allowances have not been applied at this stage. Risk considerations are addressed separately, as outlined in **Section 3.3**.

3.9 Client Costs

This estimate includes client indirect costs, which have been calculated by applying a multiplier of **0.500** Tender Total (Net Direct Costs + Contractor Indirects). This multiplier covers client-side expenditure and is inclusive of allowances for Corporate Overheads.

Note: Risk allowances have not been applied at this stage. Risk considerations are addressed separately, as outlined in **Section 3.3**.

3.10 Corporate Overheads

Corporate Overheads are included in the multiplier used to determine Client Indirect costs.

3.11 Cost Estimate Accuracy

Based on the information currently available, the estimate has been classified as an AACE Class 3. Mott MacDonald have provided a 75th percentile confidence interval range, reflecting the level of definition and maturity of the project at this stage.

It is important to consider the assumptions underpinning the estimate which are detailed in **Appendix A**, which have been assessed by the estimators delivering this work.

All costs are presented at a **2022 Q3** price base. However, it should be noted that current market indicates potential volatility in the pricing of key materials, and this should be reflected as a known threat in the project risk register to ensure appropriate contingency planning.

4.1 Net Direct Cost Benchmark

A breakdown of the direct works base costs by option is shown in **Table 4.1**. The variance is presented with respect to the benchmark, and so a positive variance indicates that the scope cost is a percentage above the benchmark, whereas a negative variance indicates the percentage below the benchmark. A more detailed breakdown including the Upper and Lower Intervals can be found in **Appendix B**.

Table 4.1: Net Direct Cost Benchmark Summary

Table 4.12: Net Direct Cost Benchmark Summary

The proportion of scope benchmarked for each of the options is high, with only Option 1 – Broomfield Bank falling below the 90% mark. This provides confidence in the findings of the benchmarks and resulting estimates, and indicates the variances are representative of the full scope. Similarly, though the variances ranges, each of the options presented fall within a 10% range of the benchmark and are therefore within an acceptable benchmark tolerance at this stage. The high coverage and small variances in tandem indicate that the cost estimates are in line with the industry for this level of design definition.

4.2 Capital Expenditure (CAPEX) Estimate

4.2.1 Project Total Cost Summary

The Whitfield Growth scheme options include net direct costs, contractor indirect costs, client indirect costs, corporate overheads and risk.

For the benchmark build-up, [REDACTED] is included in net direct work costs, [REDACTED] in contractor indirect costs and [REDACTED] in client indirect and corporate overhead costs. Additionally, [REDACTED] is attributed to risk. The resulting benchmark overall project total is [REDACTED].

Table 4.2 shows the overall project total breakdown for the benchmark against the upper and lower confidence intervals.

Table 4.2: Lower, Base & Upper Overall Project Total Cost Summary

[REDACTED]			
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Table 4.3 presents a breakdown of these intervals for the overall project total cost for each option. This helps provide confidence in the cost ranking of each option by showing the distribution of the estimated cost. The table shows that the ranking remains consistent across the scope cost as well as the benchmark and both intervals and can be considered effective.

Table 4.3: Lower Interval & Upper Interval Summary

[REDACTED]			
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To provide a comprehensive analysis of each option, their build-ups (net direct cost to overall project total) have been presented against the benchmark in **Tables 4.4 to 4.9**.

Table 4.4: Project Total Cost Summary (Option 1 Broomfield Bank)

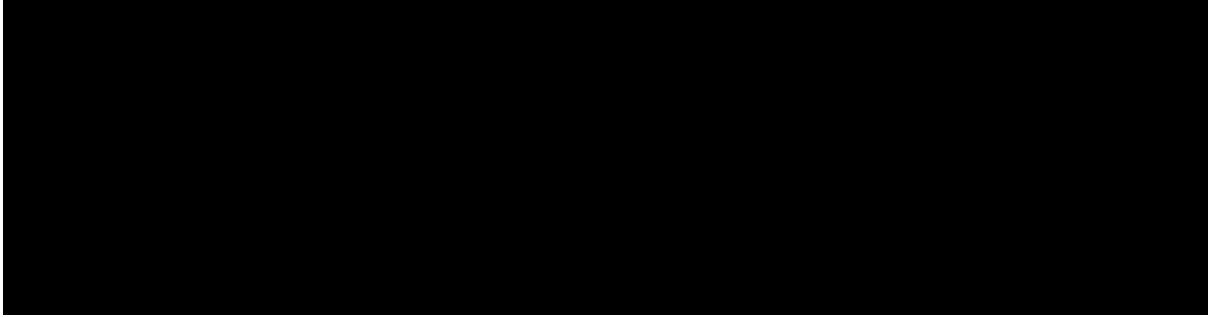
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Table 4.5: Project Total Cost Summary (Option 2 Dambridge Wingham)

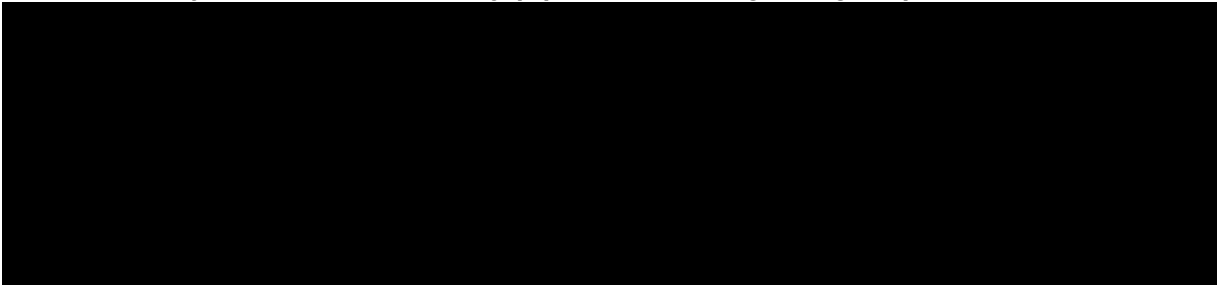
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Table 4.6: Project Total Cost Summary (Option 2A Dambridge MBR)

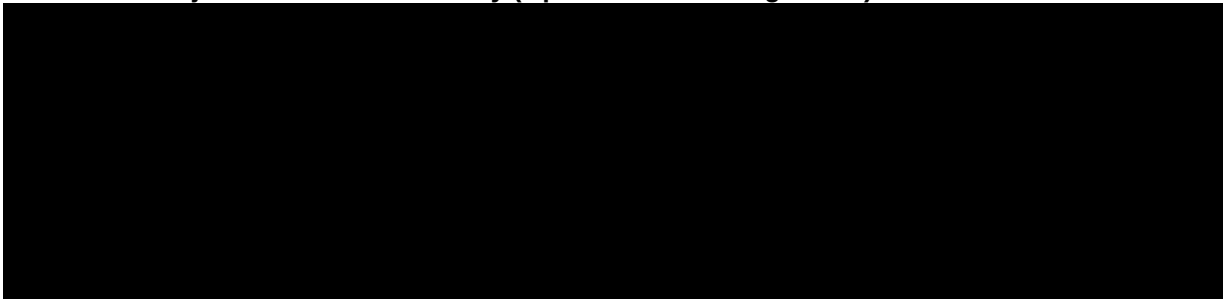
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Table 4.7: Project Total Cost Summary (Option 3 Ground Discharge)

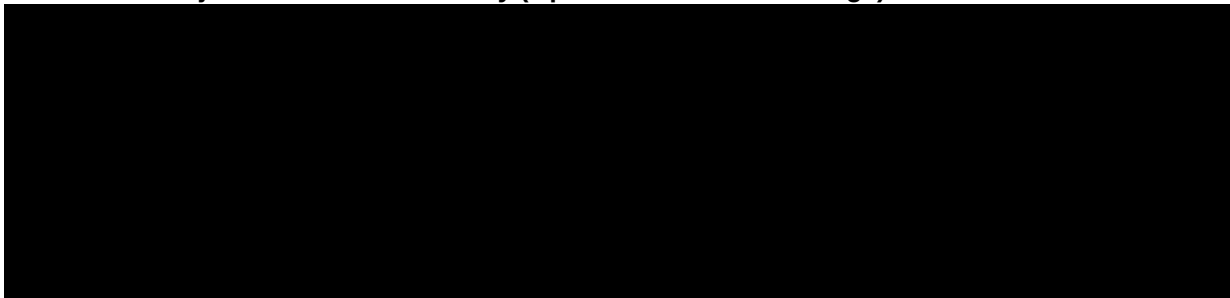
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Table 4.8: Project Total Cost Summary (Option 4 Coastal Discharge)

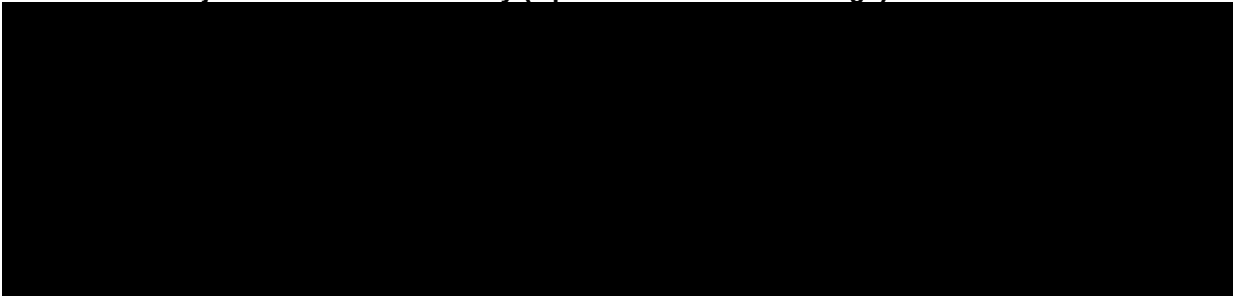
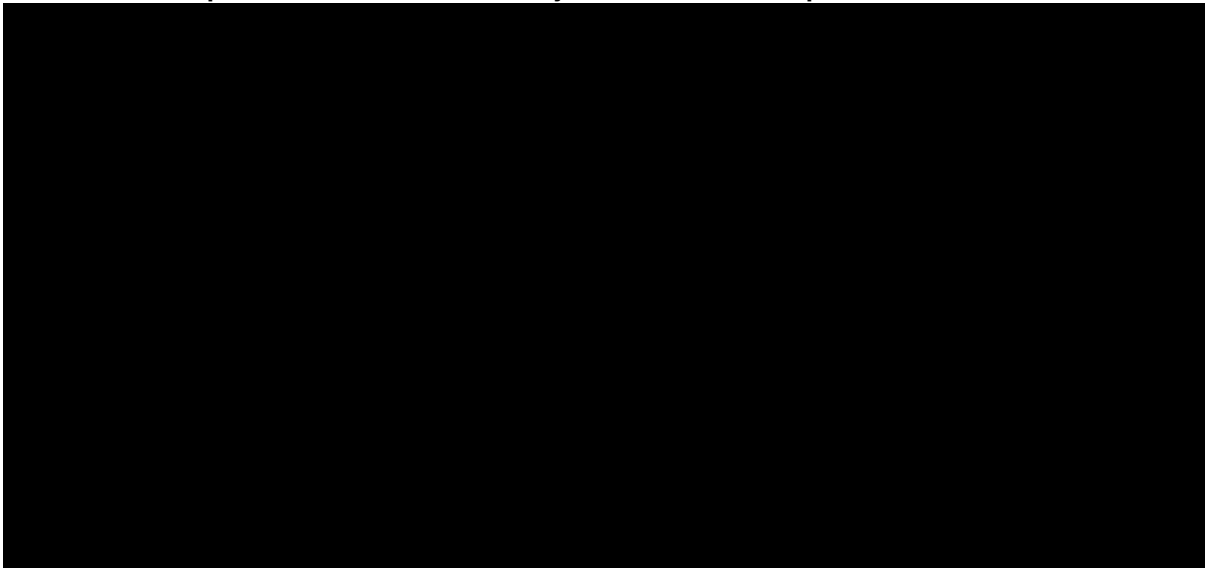
A large black rectangular box redacting the content of Table 4.8.

Table 4.9: Project Total Cost Summary (Option 5 River Discharge)

Option 4 (Coastal Discharge) represents the highest cost option, with a benchmark value of [REDACTED] and a variance of [REDACTED] to the total scope cost. This is followed by Option 1 (Broomfield Bank) at [REDACTED] and Option 2 (Dambridge Wingham) at [REDACTED] and Option 2A (Dambridge MBR) at [REDACTED]. The lowest cost options are Option 5 (River Discharge) at [REDACTED] and Option 3 (Ground Discharge) with a benchmark value of [REDACTED] and a variance of [REDACTED] to the total scope cost. Notably, Option 1 shows the smallest cost variance at [REDACTED]. The ranking of options by benchmarked cost aligns with their ranking by scope cost. This is illustrated below, in **Chart 4.1**.

Chart 4.1: Scope / Benchmark Overall Project Total Cost Comparison



Source: [REDACTED]

5 Conclusions and Recommendations

This benchmark has been developed and aligned to the defined scope of works provided by Southern Water. The cost assessment reflects the complexities identified at this stage of project development, based on the documentation provided.

The following conclusions and observations can be made from the benchmarking exercise:

- **Benchmarking Confidence**

A significant portion of the scope provided by Southern Water was successfully benchmarked using both top-down and bottom-up estimation methodologies. This dual approach strengthens the credibility of the benchmark outputs by validating them from multiple estimation perspectives.

- **Scope Deviations**

The most notable deviations in benchmarked scope were observed in Option 1 (+5.19%) and Option 5 (-5.29%). These differences, while the largest among the options, remain well within acceptable tolerance thresholds. As such, they do not materially impact the integrity of the benchmarking analysis or its conclusions.

- **Alignment of Net Direct Costs**

The benchmarked Net Direct Costs for each option closely align with the figures provided in Southern Water's original cost estimates. This consistency suggests that the base cost assumptions used by Southern Water are broadly in line with industry expectations and benchmarking standards.

- **Alignment of Total Indirect Costs**

Similarly, the Total Indirect Costs derived from the benchmark are generally consistent with Southern Water's estimates. This indicates that overheads, preliminaries, and other indirect cost components have been reasonably assessed in the original estimates.

- **Risk Allowances and Variance**

A key area of divergence lies in the Risk category, where benchmark outputs show significantly higher allowances compared to Southern Water's estimates. This discrepancy is the primary driver of variance between the two sets of cost data and highlights a potential underestimation of risk in the original estimate submissions.

- **Risk Range Validation**

Despite the differences in risk assumptions, Southern Water's overall cost estimates still fall within the upper and lower bounds of the benchmark intervals. This suggests that while risk may be understated, the overall estimates remain within a plausible range and are not outside industry norms.

- **Impact on Option Rankings**

Importantly, the benchmarked Overall Project Totals do not alter the relative cost rankings of the options. Option 3 continues to be the most cost-effective solution, while Option 4 remains the highest-cost alternative.

To support the progression of the project through future design phases, the following actions are recommended:

- Develop the cost estimates and benchmark as project design progresses through design stages and scope becomes further defined. The re-baselining of the cost estimate and benchmark at these stages can inform budgets and facilitate greater cost control throughout the project. It can also enable cost-effective selection of design options. As the project develops, the estimating approach used to develop the benchmark can also be refined to improve confidence.
- Thoroughly analyse approach to risk estimation to understand the underlying reasons for the disparity between Southern Waters risk allowances and those observed in industry benchmarking norms. This analysis will help identify whether the differences stem from methodological assumptions, scope interpretation, or risk appetite, and will support the development of more aligned and robust risk provisions in future cost estimates.
- Develop, cost, and model option specific risk registers. This will enable a more detailed analysis of identified risks, opportunities, and mitigation strategies, resulting in a more robust and specific risk allowance within the overall cost estimate for each option. This activity could include engagement with third party stakeholders to understand wider threats and opportunities in relation to the environment and additional requirements such as planning and regulatory consents.
- The current benchmark has been classified as Class 3, reflecting a moderate level of project definition. As the design progresses and more detailed information becomes available, it is recommended to refine the estimate accordingly.
- As the project advances, it will be essential to account for assumed durations, including allowances for non-productive time. Special consideration should be given to the operational nature of the project, where multiple interfaces with third parties may impact delivery, and include in estimation and benchmarking assumptions.

Appendices

A. Assumptions and Clarifications

A.1 The following assumptions are provided for Workbook 01 - Option 1 Broomfield Bank:

- 01.1-BM15 - Assumed flow of 10l/s
- 01.1-BM38 - Assumed width of 10m
- 01.1-BM44 - Assumed width of 10m
- 01.1-BM06 - Assumed power factor of 0.8
- 01.2-BM26 - Assumed area of 15m²
- 01.2-BM32 - Assumed area of 15m²
- 01.4-BM24 - Based on 355m³ per day for 2 months to match Southern Water Estimate Notes
- 01.5-BM13 - Assumed power factor of 0.8
- 01.5-BM23 - Assumed power factor of 0.8

A.2 The following assumptions are provided for Workbook 02 - Option 2 Dambridge Wingham:

- 02.1-BM13 - Assumed flow of 10l/s
- 02.1-BM46 - Assumed width of 10m
- 02.1-BM48 - Assumed depth of 2m
- 02.1-BM50 - Easement costed to align with Southern Water Estimate assuming 10m width
- 02.1-BM06 - Assumed power factor of 0.8
- 02.2-BM14 - Assumed thickness of 200mm
- 02.2-BM24 - Assumed thickness of 200mm
- 02.2-BM25 - Assumed height of 2m
- 02.2-BM27 - Assumed depth of 2m
- 02.2-BM29 - Assumed depth of 2m
- 02.2-BM35 - Based on 300Nr of 15m deep piles as per Southern Water Estimate Notes
- 02.2-BM46 - Assumed depth of 2m
- 02.2-BM10 - Assumed length of 10m
- 02.3-BM15 - Assumed thickness of 200mm
- 02.3-BM20 - Assumed depth of 2m

02.3-BM22 - Assumed height of 1m
02.3-BM35 - Assumed power factor of 0.8
02.3-BM06 - Assumed depth of 2m
02.4-BM44 - Assumed incoming pipe diameter of 560mm
02.4-BM50 - Assumes the same population equivalent as settlement tanks
02.5-BM01 - Assumed power factor of 0.8

A.3 The following assumptions are provided for Workbook 03 - Option 2A Dambridge MBR:

03.1-BM05 - Assumed power factor of 0.8
03.1-BM12 - Assumed flow of 10l/s
03.1-BM44 - Assumed width of 10m
03.1-BM48 - Easement costed to align with Southern Water Estimate assuming 10m width
03.2-BM08 - Assumed length of 10m
03.2-BM12 - Assumed area of 10m²
03.2-BM14 - Assumed depth of 2m
03.2-BM17 - Assumed pipe diameter of 560mm
03.2-BM22 - Assumed thickness of 200mm
03.2-BM23 - Assumed height of 2m
03.2-BM25 - Assumed depth of 2m
03.2-BM37 - Based on 300Nr of 15m deep piles as per Southern Water Estimate Notes
03.2-BM39 - Assumed depth of 2m
03.2-BM42 - Assumed concrete tank and depth of 3m
03.2-BM47 - Assumed depth of 2m
03.3-BM18 - Assumed depth of 2m
03.3-BM20 - Assumed height of 1m
03.3-BM29 - Assumed power factor of 0.8
03.4-BM41 - Assumed incoming pipe diameter of 560mm
03.5-BM04 - Assumes the same population equivalent as settlement tanks

A.4 The following assumptions are provided for Workbook 04 - Option 3 Ground Discharge:

- 04.1-BM05 - Assumed power factor of 0.8
- 04.1-BM12 - Assumed flow of 10l/s
- 04.1-BM32 - Assumed width of 10m
- 04.1-BM39 - Assumed width of 4m and height of 2.4m
- 04.2-BM14 - Assumed height of 1m
- 04.2-BM33 - Assumed power factor of 0.8
- 04.2-BM40 - Assumed power of 400kVA to match specified power for transformer
- 04.3-BM47 - Easement costed to align with Southern Water Estimate assuming 10m width
- 04.4-BM38 - Assumed power factor of 0.8
- 04.4-BM39 - Assumed thickness of 200mm
- 04.4-BM06 - Assumed incoming pipe diameter of 560mm
- 04.4-BM20 - Assumes the same population equivalent as settlement tanks
- 04.4-BM25 - Assumed power factor of 0.8

A.5 The following assumptions are provided for Workbook 05 - Option 4 Coastal Discharge:

- 05.1-BM05 - Assumed power factor of 0.8
- 05.1-BM12 - Assumed flow of 10l/s
- 05.1-BM34 - Assumed width of 10m
- 05.1-BM35 - Easement costed to align with Southern Water Estimate assuming 10m width
- 05.1-BM44 - Assumed width of 4m and height of 2.4m
- 05.2-BM08 - Assumed power factor of 0.8
- 05.2-BM10 - Assumed thickness of 200mm
- 05.2-BM24 - Assumed height of 1m
- 05.2-BM36 - Assumed power factor of 0.8
- 05.4-BM08 - Assumed incoming pipe diameter of 560mm
- 05.4-BM17 - Assumes the same population equivalent as settlement tanks
- 05.4-BM22 - Assumed power factor of 0.8
- 05.4-BM30 - Assumed power factor of 0.8
- 05.4-BM37 - Assumed flow of 10l/s
- 05.5-BM06 - Assumed width of 10m

05.5-BM19 - Easement costed to align with Southern Water Estimate assuming 10m width

A.6 The following assumptions are provided for Workbook 06 - Option 5 River Discharge:

06.1-BM06 - Assumed power factor of 0.8

06.1-BM13 - Assumed flow of 10l/s

06.1-BM36 - Assumed width of 10m

06.1-BM39 - Easement costed to align with Southern Water Estimate assuming 10m width

06.1-BM47 - Assumed width of 4m and height of 2.4m

06.2-BM27 - Assumed height of 1m

06.2-BM50 - Assumed power factor of 0.8

06.3-BM01 - Assumed power of 500kVA to match specified power for transformer

06.4-BM20 - Assumed incoming pipe diameter of 560mm

06.4-BM28 - Assumes the same population equivalent as settlement tanks

06.4-BM32 - Assumed power factor of 0.8

06.4-BM41 - Assumed width of 10m

06.5-BM39 - Assumed power factor of 0.8

06.5-BM40 - Assumed thickness of 200mm

06.5-BM02 - Assumed power factor of 0.8

06.5-BM09 - Assumed flow of 10l/s

06.5-BM28 - Assumed width of 10m

B. Whitfield Cost Estimate Summary

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[illegible][illegible][illegible]

C. Whitfield Cost Estimate Breakdown

		Estimate Breakdown	
		Whitfield	

WB Ref	Workbook Description	BM Ref	Description	Client Cost	Qty	Driver	UoM	No. of Sources	Direct Cost Benchmark	Lower Interval Benchmark	Upper Interval Benchmark	Variance %	Variance Cost
01.1	Whitfield - Option 1 Broomfield Bank												
01.1	Whitfield - Option 1 Broomfield Bank	BM01	Modifications to WPS Structure		1	1,200	m3	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM02	CHAMBER		1	32	m3	5					
01.1	Whitfield - Option 1 Broomfield Bank	BM03	PIPEWORK(CIVIL)		30	375	mm	4					
01.1	Whitfield - Option 1 Broomfield Bank	BM04	GATE VALVE		3	375	mm	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM05											
01.1	Whitfield - Option 1 Broomfield Bank	BM06	MOTOR CONTROL CENTRE (M.C.C.)		1	160	kw	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM07	KIOSK(EQSET)		1	40	m3	6					
01.1	Whitfield - Option 1 Broomfield Bank	BM08	BOUNDARY STRUCTURES - Fencing		1	100	m	5					
01.1	Whitfield - Option 1 Broomfield Bank	BM09	ROAD (EQSET)		1	40	m2	5					
01.1	Whitfield - Option 1 Broomfield Bank	BM10	PIPEWORK(CIVIL)		20	375	mm	4					
01.1	Whitfield - Option 1 Broomfield Bank	BM11	FLOW MEASUREMENT		1	375	mm	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM12	CHAMBER		1	4	m3	4					
01.1	Whitfield - Option 1 Broomfield Bank	BM13	BAUER CONNECTION		1	300	mm	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM14	PIPEWORK(CIVIL)		20	100	mm	5					
01.1	Whitfield - Option 1 Broomfield Bank	BM15	NUTRIQX DOSING SYSTEM		1	250	m3	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM16	PUMPSET WASTEWATER		3	80	kw	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM17	CHEMICAL SHOWER/EYEBATH		1	1	Nr	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM18	SITE LIGHTING (EQSET)		1	1	Nr	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM19	CABLING		1	60	m	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM20	NRV		3	375	mm	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM21	NRV		1	100	mm	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM22	CABLING		1	100	m	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM23	PLINTH/BASE SLAB		1	1	m3	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM24	PLINTH/BASE SLAB		1	3	m3	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM25	PIPEWORK(CIVIL)		75	63	mm	4					
01.1	Whitfield - Option 1 Broomfield Bank	BM26	CABLING		6	40	m	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM27	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Field/Verge		402	560	mm	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM28	DIRECTIONAL DRILLING - Normal		00	560	mm	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM29	DIRECTIONAL DRILLING - Complex		10	560	mm	4					
01.1	Whitfield - Option 1 Broomfield Bank	BM30	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Type3/4Road		548	560	mm	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM31	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge		8	1	Nr	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM32	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Type3/4Road		6	1	Nr	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM33	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Field/Verge		8	1	Nr	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM34	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Type3/4Road		3	1	Nr	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM35	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Type2Road		3	1	Nr	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM36	Sewer Rising Main - Air Valve Depth 3.5 - 4.5m Type3/4Road		2	1	Nr	2					
01.1	Whitfield - Option 1 Broomfield Bank	BM37	Sewer Rising Main - Scour Valve Depth 3.5 - 4.5m Type3/4Road		3	1	Nr	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM38	Easements for pipelines		1	5,402	m	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM39	MANHOLE; Depth 2m (Launch/Reception Pits)		4	3,000	mm	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM40	MANHOLE; Depth 6m (Launch/Reception Pits)		2	3,000	mm	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM41	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Type2Road		02	560	mm	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM42	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Type0/1Road		06	560	mm	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM43	DIRECTIONAL DRILLING - Normal		32	560	mm	3					
01.1	Whitfield - Option 1 Broomfield Bank	BM44	Easements for pipelines		1	5,200	m	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM45	EIA Screening and Mitigating Works		1	1	Sum	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM46	Working Near to Grade II Used Buildings		1	1	Sum	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM47	Working in Lane Rental Schemes		1	1	Sum	1					
01.1	Whitfield - Option 1 Broomfield Bank	BM48											
01.1	Whitfield - Option 1 Broomfield Bank	BM49	Traffic Management		1	1	Sum						
01.1	Whitfield - Option 1 Broomfield Bank	BM50	Building Modifications		1	1	Sum	1					
01.2	Whitfield - Option 1 Broomfield Bank												

01.2	Whitfield - Option 1 Broomfield Bank	BM01	PLINTH/BASE SLAB	1	1,800	m3	1
01.2	Whitfield - Option 1 Broomfield Bank	BM02	SITE CLEARANCE	1	3,260	m2	3
01.2	Whitfield - Option 1 Broomfield Bank	BM03					
01.2	Whitfield - Option 1 Broomfield Bank	BM04	RC Concrete Piling Capping Beams	1	1	Sum	1
01.2	Whitfield - Option 1 Broomfield Bank	BM05	Bridge Beams	1	1	Sum	1
01.2	Whitfield - Option 1 Broomfield Bank	BM06	Infill Slabs to Roof beams	1	1	Sum	1
01.2	Whitfield - Option 1 Broomfield Bank	BM07	Screed	1	1,800	m2	2
01.2	Whitfield - Option 1 Broomfield Bank	BM08					
01.2	Whitfield - Option 1 Broomfield Bank	BM09	PIPEWORK(CIVIL)	170	150	mm	4
01.2	Whitfield - Option 1 Broomfield Bank	BM10	Sheet Piling	1	35	m	2
01.2	Whitfield - Option 1 Broomfield Bank	BM11	ROAD (EQSET)	1	570	m2	5
01.2	Whitfield - Option 1 Broomfield Bank	BM12	LANDSCAPE/GROUNDS	1	2,100	m2	4
01.2	Whitfield - Option 1 Broomfield Bank	BM13	LANDSCAPE/GROUNDS	1	70	m2	4
01.2	Whitfield - Option 1 Broomfield Bank	BM14	INDUSTRIAL DOORS: Roller Shutter	2	49	m2	1
01.2	Whitfield - Option 1 Broomfield Bank	BM15	PIPEWORK(CIVIL)	70	200	mm	4
01.2	Whitfield - Option 1 Broomfield Bank	BM16	Under Pressure Connections	1	1	Sum	1
01.2	Whitfield - Option 1 Broomfield Bank	BM17	Temporary - Over-pumping (6") Over-pumping (6")	8	24	hrs	1
01.2	Whitfield - Option 1 Broomfield Bank	BM18	PIPEWORK(MEICA)	5	200	mm	2
01.2	Whitfield - Option 1 Broomfield Bank	BM19	PLINTH/BASE SLAB	1	2	m3	3
01.2	Whitfield - Option 1 Broomfield Bank	BM20	PIPEWORK(MEICA)	20	150	mm	2
01.2	Whitfield - Option 1 Broomfield Bank	BM21	PIPEWORK(MEICA)	20	200	mm	2
01.2	Whitfield - Option 1 Broomfield Bank	BM22	Coring Concrete Wall	5	250	mm	1
01.2	Whitfield - Option 1 Broomfield Bank	BM23	PIPEWORK(CIVIL)	60	150	mm	4
01.2	Whitfield - Option 1 Broomfield Bank	BM24	ACTUATED VALVE	2	150	mm	1
01.2	Whitfield - Option 1 Broomfield Bank	BM25	PLINTH/BASE SLAB	2	4	m3	2
01.2	Whitfield - Option 1 Broomfield Bank	BM26	Road Reinstatement	1	4	m3	1
01.2	Whitfield - Option 1 Broomfield Bank	BM27	PIPEWORK(MEICA)	20	100	mm	2
01.2	Whitfield - Option 1 Broomfield Bank	BM28					
01.2	Whitfield - Option 1 Broomfield Bank	BM29	Coring Concrete Wall	5	200	mm	1
01.2	Whitfield - Option 1 Broomfield Bank	BM30	PIPEWORK(CIVIL)	60	100	mm	5
01.2	Whitfield - Option 1 Broomfield Bank	BM31	ACTUATED VALVE	2	100	mm	1
01.2	Whitfield - Option 1 Broomfield Bank	BM32	Road Reinstatement	1	4	m3	1
01.2	Whitfield - Option 1 Broomfield Bank	BM33	PIPEWORK(CIVIL)	80	150	mm	4
01.2	Whitfield - Option 1 Broomfield Bank	BM34	Coring Concrete Wall	2	200	mm	1
01.2	Whitfield - Option 1 Broomfield Bank	BM35	PIPEWORK(MEICA)	20	150	mm	2
01.2	Whitfield - Option 1 Broomfield Bank	BM36	ACTUATED VALVE	2	150	mm	1
01.2	Whitfield - Option 1 Broomfield Bank	BM37	ACCESS STRUCTURE(Platform)	2	65	m2	3
01.2	Whitfield - Option 1 Broomfield Bank	BM38	ACCESS STRUCTURE - Handrailing	1	73	m	3
01.2	Whitfield - Option 1 Broomfield Bank	BM39	ACCESS STRUCTURE - Ladder	1	5	m	4
01.2	Whitfield - Option 1 Broomfield Bank	BM40	ACCESS STRUCTURE (Stairs)	1	12	m	3
01.2	Whitfield - Option 1 Broomfield Bank	BM41	CENTRIFUGE (Temporary)	1	36	m3/hr	1
01.2	Whitfield - Option 1 Broomfield Bank	BM42	LIFTING SLEWING JIB (EQSET)	2	5,000	kg	1
01.2	Whitfield - Option 1 Broomfield Bank	BM43	PIPEWORK(CIVIL)	60	250	mm	4
01.2	Whitfield - Option 1 Broomfield Bank	BM44	Under Pressure Connection	1	1	Sum	1
01.2	Whitfield - Option 1 Broomfield Bank	BM45	PIPEWORK(CIVIL)	40	90	mm	5
01.2	Whitfield - Option 1 Broomfield Bank	BM46	ROAD (EQSET)	2	9	m2	3
01.2	Whitfield - Option 1 Broomfield Bank	BM47					
01.2	Whitfield - Option 1 Broomfield Bank	BM48					
01.2	Whitfield - Option 1 Broomfield Bank	BM49	GENERATOR SET (CIVIL)	1	18	m3	2
01.2	Whitfield - Option 1 Broomfield Bank	BM50	GENERATOR SET (MEICA)	1	1,200	Kva	2
01.3	Whitfield - Option 1 Broomfield Bank						
01.3	Whitfield - Option 1 Broomfield Bank	BM01	CHANNEL	1	70	m	1
01.3	Whitfield - Option 1 Broomfield Bank	BM02	ODOUR COVER(EQSET)	1	70	m2	2
01.3	Whitfield - Option 1 Broomfield Bank	BM03	ODOUR COVER(EQSET)	1	225	m2	2
01.3	Whitfield - Option 1 Broomfield Bank	BM04	ODOUR COVER(EQSET)	1	98	m2	2
01.3	Whitfield - Option 1 Broomfield Bank	BM05	ODOUR COVER(EQSET)	1	13	m2	2
01.3	Whitfield - Option 1 Broomfield Bank	BM06	ODOUR FILTER: Biotrickling Filter	1	400,800	m3/d	1
01.3	Whitfield - Option 1 Broomfield Bank	BM07	ODOUR FILTER: Dual Deep Bed Carbon Filter	1	600,000	m3/d	1
01.3	Whitfield - Option 1 Broomfield Bank	BM08	PLINTH/BASE SLAB	1	132	m3	2
01.3	Whitfield - Option 1 Broomfield Bank	BM09	PIPEWORK(MEICA)	50	90	mm	2
01.3	Whitfield - Option 1 Broomfield Bank	BM10	DOSING PIPEWORK(MEICA)	1	40	m	2
01.3	Whitfield - Option 1 Broomfield Bank	BM11					
01.3	Whitfield - Option 1 Broomfield Bank	BM12					
01.3	Whitfield - Option 1 Broomfield Bank	BM13	PIPEWORK(MEICA)	20	150	mm	2
01.3	Whitfield - Option 1 Broomfield Bank	BM14	LEVEL MEASUREMENT	3	1	Nr	3

01.3	Whitfield - Option 1 Broomfield Bank	BM15	LEVEL MEASUREMENT	3	1	Nr	3
01.3	Whitfield - Option 1 Broomfield Bank	BM16	ICA Modifications	1	1	Sum	1
01.3	Whitfield - Option 1 Broomfield Bank	BM17	Temporary - Over-pumping (6'') Over-pumping (6'')	1	4	hrs	1
01.3	Whitfield - Option 1 Broomfield Bank	BM18					
01.3	Whitfield - Option 1 Broomfield Bank	BM19	Scaffolding	1	1	Sum	Incl.
01.3	Whitfield - Option 1 Broomfield Bank	BM20	LAUNDER CHANNELS	4	1	m	1
01.3	Whitfield - Option 1 Broomfield Bank	BM21	Knocking Out Reinforced Concrete	1	1	Sum	1
01.3	Whitfield - Option 1 Broomfield Bank	BM22	Temporary - Over-pumping (6'') Over-pumping (6'')	1	4	hrs	1
01.3	Whitfield - Option 1 Broomfield Bank	BM23					
01.3	Whitfield - Option 1 Broomfield Bank	BM24	Scaffolding	1	1	Sum	Incl.
01.3	Whitfield - Option 1 Broomfield Bank	BM25	LAUNDER CHANNELS	4	1	m	1
01.3	Whitfield - Option 1 Broomfield Bank	BM26	Knocking Out Reinforced Concrete	1	1	Sum	1
01.3	Whitfield - Option 1 Broomfield Bank	BM27	Temporary - Over-pumping (6'') Over-pumping (6'')	1	53	hrs	1
01.3	Whitfield - Option 1 Broomfield Bank	BM28	Temporary - Over-pumping (6'') Over-pumping (6'')	1	4	hrs	1
01.3	Whitfield - Option 1 Broomfield Bank	BM29					
01.3	Whitfield - Option 1 Broomfield Bank	BM30	Scaffolding	1	1	Sum	Incl.
01.3	Whitfield - Option 1 Broomfield Bank	BM31	LAUNDER CHANNELS	4	1	m	1
01.3	Whitfield - Option 1 Broomfield Bank	BM32	Knocking Out Reinforced Concrete	1	1	Sum	1
01.3	Whitfield - Option 1 Broomfield Bank	BM33	Temporary - Over-pumping (6'') Over-pumping (6'')	2	53	hrs	1
01.3	Whitfield - Option 1 Broomfield Bank	BM34	Cleaning Out FOG Tank	1	1	Nr	1
01.3	Whitfield - Option 1 Broomfield Bank	BM35	Cleaning Out FOG Tank	1	1	Nr	1
01.3	Whitfield - Option 1 Broomfield Bank	BM36	Cleaning Out FOG Tank	1	1	Nr	1
01.3	Whitfield - Option 1 Broomfield Bank	BM37	Removal of lamella No 1 Odour Cover	1	1	Sum	1
01.3	Whitfield - Option 1 Broomfield Bank	BM38					
01.3	Whitfield - Option 1 Broomfield Bank	BM39	Temporary - Over-pumping (6'') Over-pumping (6'')	1	4	hrs	1
01.3	Whitfield - Option 1 Broomfield Bank	BM40					
01.3	Whitfield - Option 1 Broomfield Bank	BM41	LAUNDER CHANNELS	4	13	m	1
01.3	Whitfield - Option 1 Broomfield Bank	BM42					
01.3	Whitfield - Option 1 Broomfield Bank	BM43	Removal of lamella No 2 Odour Cover	1	1	Sum	1
01.3	Whitfield - Option 1 Broomfield Bank	BM44					
01.3	Whitfield - Option 1 Broomfield Bank	BM45	Temporary - Over-pumping (6'') Over-pumping (6'')	1	4	hrs	1
01.3	Whitfield - Option 1 Broomfield Bank	BM46					
01.3	Whitfield - Option 1 Broomfield Bank	BM47	LAUNDER CHANNELS	4	13	m	1
01.3	Whitfield - Option 1 Broomfield Bank	BM48	Temporary - Over-pumping (6'') Over-pumping (6'')	1	53	hrs	1
01.3	Whitfield - Option 1 Broomfield Bank	BM49					
01.3	Whitfield - Option 1 Broomfield Bank	BM50	Removal of lamella No 3 Odour Cover	1	1	Sum	1
01.4	Whitfield - Option 1 Broomfield Bank						
01.4	Whitfield - Option 1 Broomfield Bank	BM01					
01.4	Whitfield - Option 1 Broomfield Bank	BM02	Temporary - Over-pumping (6'') Over-pumping (6'')	1	4	hrs	1
01.4	Whitfield - Option 1 Broomfield Bank	BM03					
01.4	Whitfield - Option 1 Broomfield Bank	BM04	LAUNDER CHANNELS	4	13	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM05	Temporary - Over-pumping (6'') Over-pumping (6'')	2	53	hrs	1
01.4	Whitfield - Option 1 Broomfield Bank	BM06					
01.4	Whitfield - Option 1 Broomfield Bank	BM07	Removal of lamella No 4 Odour Cover	1	1	Sum	1
01.4	Whitfield - Option 1 Broomfield Bank	BM08					
01.4	Whitfield - Option 1 Broomfield Bank	BM09	Temporary - Over-pumping (6'') Over-pumping (6'')	1	4	hrs	1
01.4	Whitfield - Option 1 Broomfield Bank	BM10					
01.4	Whitfield - Option 1 Broomfield Bank	BM11	LAUNDER CHANNELS	4	13	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM12	Temporary - Over-pumping (6'') Over-pumping (6'')	2	53	hrs	1
01.4	Whitfield - Option 1 Broomfield Bank	BM13					
01.4	Whitfield - Option 1 Broomfield Bank	BM14					
01.4	Whitfield - Option 1 Broomfield Bank	BM15					
01.4	Whitfield - Option 1 Broomfield Bank	BM16					
01.4	Whitfield - Option 1 Broomfield Bank	BM17	Stopboard	6	1	Nr	1
01.4	Whitfield - Option 1 Broomfield Bank	BM18	Temporary - Over-pumping (6'') Over-pumping (6'')	6	5	hrs	1
01.4	Whitfield - Option 1 Broomfield Bank	BM19	Cleaning Out BAFF 1	1	1	Sum	1
01.4	Whitfield - Option 1 Broomfield Bank	BM20					
01.4	Whitfield - Option 1 Broomfield Bank	BM21	Beed Screen	6	1	Nr	1
01.4	Whitfield - Option 1 Broomfield Bank	BM22	SLUDGE TRANSFER PUMPSET	2	10	l/s	2
01.4	Whitfield - Option 1 Broomfield Bank	BM23	CENTRIFUGE (EQSET)	2	36	m3/hr	4
01.4	Whitfield - Option 1 Broomfield Bank	BM24	Tankering	1	21,300	m3	1
01.4	Whitfield - Option 1 Broomfield Bank	BM25	SCREW FEEDER	2	15	kw	1
01.4	Whitfield - Option 1 Broomfield Bank	BM26	Knocking wall Out	1	1	Sum	1
01.4	Whitfield - Option 1 Broomfield Bank	BM27	PIPEWORK(MEICA)	50	150	mm	2
01.4	Whitfield - Option 1 Broomfield Bank	BM28	VALVING (EQSET)	4	150	mm	2

01.4	Whitfield - Option 1 Broomfield Bank	BM29	NRV	2	150	mm	2
01.4	Whitfield - Option 1 Broomfield Bank	BM30	TELEMETRY (EQSET)	1	1	Nr	2
01.4	Whitfield - Option 1 Broomfield Bank	BM31					
01.4	Whitfield - Option 1 Broomfield Bank	BM32	EMERGENCY LIGHTING CIRCUIT	3	120	m2	1
01.4	Whitfield - Option 1 Broomfield Bank	BM33	LIGHTING CIRCUIT	10	4	Nr	1
01.4	Whitfield - Option 1 Broomfield Bank	BM34	SITE LIGHTING (EQSET)	3	1	Nr	2
01.4	Whitfield - Option 1 Broomfield Bank	BM35					
01.4	Whitfield - Option 1 Broomfield Bank	BM36	DRAWPIT	12	1	m2	1
01.4	Whitfield - Option 1 Broomfield Bank	BM37					
01.4	Whitfield - Option 1 Broomfield Bank	BM38	CABLUNG	6	50	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM39	CABLETRAY	3	30	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM40					
01.4	Whitfield - Option 1 Broomfield Bank	BM41	CABLUNG	1	360	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM42	CABLUNG	1	360	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM43	CABLUNG	1	420	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM44	CABLUNG	1	420	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM45	CABLUNG	1	540	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM46	CABLUNG	1	540	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM47	CABLUNG	2	80	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM48					
01.4	Whitfield - Option 1 Broomfield Bank	BM49	CABLUNG	1	300	m	1
01.4	Whitfield - Option 1 Broomfield Bank	BM50	CABLUNG	1	300	m	1
01.5	Whitfield - Option 1 Broomfield Bank						
01.5	Whitfield - Option 1 Broomfield Bank	BM01	CABLUNG	1	160	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM02	CABLETRAY	2	70	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM03	CABLUNG	1	160	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM04	CABLUNG	1	180	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM05	CABLUNG	1	180	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM06	DISTRIBUTION BOARD	2	10	Nr	1
01.5	Whitfield - Option 1 Broomfield Bank	BM07					
01.5	Whitfield - Option 1 Broomfield Bank	BM08	CABLUNG	8	60	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM09	CABLUNG	1	720	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM10	CABLUNG	1	720	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM11	CABLUNG	1	720	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM12	CABLUNG	1	720	m	1
01.5	Whitfield - Option 1 Broomfield Bank	BM13	LOCAL CONTROL PANEL	1	18	kw	1
01.5	Whitfield - Option 1 Broomfield Bank	BM14					
01.5	Whitfield - Option 1 Broomfield Bank	BM15	DUCT	9	100	m	3
01.5	Whitfield - Option 1 Broomfield Bank	BM16	F: BALANCING	1	8	m3	2
01.5	Whitfield - Option 1 Broomfield Bank	BM17	INLET WORKS STRUCTURE	1	458	l/s	2
01.5	Whitfield - Option 1 Broomfield Bank	BM18	F: SCREENING	2	100	l/s	2
01.5	Whitfield - Option 1 Broomfield Bank	BM19	F: SCREENING HANDLING NO BAGGING	2	3	m3/hr	2
01.5	Whitfield - Option 1 Broomfield Bank	BM20	F: WASHWATER SYSTEM (FUNC)	1	10	m3	1
01.5	Whitfield - Option 1 Broomfield Bank	BM21	STORM TANK	1	691	m3	1
01.5	Whitfield - Option 1 Broomfield Bank	BM22	F: PUMPING	1	5	kW	4
01.5	Whitfield - Option 1 Broomfield Bank	BM23	F: COMMON CONTROL	1	240	kW	1
01.5	Whitfield - Option 1 Broomfield Bank	BM24	ACTUATED PENSTOCK	3	3	m2	1
01.5	Whitfield - Option 1 Broomfield Bank	BM25	F: FERRIC SULPHATE DOSING	1	7	MLD	4
01.5	Whitfield - Option 1 Broomfield Bank	BM26	F: SCREENING	3	555	l/s	2
01.5	Whitfield - Option 1 Broomfield Bank	BM27	HAND RAKED BAR SCREEN	2	555	l/s	3
01.5	Whitfield - Option 1 Broomfield Bank	BM28	F: THICKENED SLUDGE STORAGE	1	350	m3	4
01.5	Whitfield - Option 1 Broomfield Bank	BM29					
01.5	Whitfield - Option 1 Broomfield Bank	BM30					
01.5	Whitfield - Option 1 Broomfield Bank	BM31					
01.5	Whitfield - Option 1 Broomfield Bank	BM32					
01.5	Whitfield - Option 1 Broomfield Bank	BM33					
01.5	Whitfield - Option 1 Broomfield Bank	BM34					
01.5	Whitfield - Option 1 Broomfield Bank	BM35					
01.5	Whitfield - Option 1 Broomfield Bank	BM36					
01.5	Whitfield - Option 1 Broomfield Bank	BM37	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	74	300	mm	5
01.5	Whitfield - Option 1 Broomfield Bank	BM38	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	222	300	mm	5
01.5	Whitfield - Option 1 Broomfield Bank	BM39	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	146	375	mm	5
01.5	Whitfield - Option 1 Broomfield Bank	BM40	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	85	300	mm	5
01.5	Whitfield - Option 1 Broomfield Bank	BM41	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	88	300	mm	5
01.5	Whitfield - Option 1 Broomfield Bank	BM42	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	6	1,350	mm	4

01.5	Whitfield - Option 1 Broomfield Bank	BM43	Gravity Sewer - Manholes Depth <1.5 Type3/4Road	3	1,350	mm	4	
01.5	Whitfield - Option 1 Broomfield Bank	BM44	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	223	450	mm	5	
01.5	Whitfield - Option 1 Broomfield Bank	BM45	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	1	1,350	mm	4	
01.5	Whitfield - Option 1 Broomfield Bank	BM46	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	119	300	mm	5	
01.5	Whitfield - Option 1 Broomfield Bank	BM47	Temporary - Over-pumping (6") Over-pumping (6")	10	104	hrs		incl
01.5	Whitfield - Option 1 Broomfield Bank	BM48	Temporary - Over-pumping (6") Over-pumping (6")	1	3,000	hrs		incl
01.5	Whitfield - Option 1 Broomfield Bank	BM49	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	5,000	350	mm	5	
01.5	Whitfield - Option 1 Broomfield Bank	BM50						
02.1	Whitfield - Option 2 Dambridge Wingham							
02.1	Whitfield - Option 2 Dambridge Wingham	BM01	Modifications to WPS Structure	1	1200	m3	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM02	CHAMBER (volume)	1	32	m3	5	
02.1	Whitfield - Option 2 Dambridge Wingham	BM03	PIPEWORK(CIVIL)	60	375	mm	3	
02.1	Whitfield - Option 2 Dambridge Wingham	BM04	GATE VALVE	3	375	mm	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM05						
02.1	Whitfield - Option 2 Dambridge Wingham	BM06	MOTOR CONTROL CENTRE (M.C.C.)	1	75	kw	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM07	KIOSK(EQSET)	1	4	m3	6	
02.1	Whitfield - Option 2 Dambridge Wingham	BM08	BOUNDARY STRUCTURES - Fencing	1	100	m	5	
02.1	Whitfield - Option 2 Dambridge Wingham	BM09	FLOW MEASUREMENT	1	375	mm	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM10	CHAMBER (volume)	1	4	m3	4	
02.1	Whitfield - Option 2 Dambridge Wingham	BM11	BAUER CONNECTION	1	300	mm	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM12	PIPEWORK(CIVIL)	20	100	mm	5	
02.1	Whitfield - Option 2 Dambridge Wingham	BM13	NUTRIX DOSING SYSTEM	1	250	m3	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM14	PUMPSET WASTEWATER	3	38	kw	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM15	CHEMICAL SHOWER/EYEBATH	1	1	Nr	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM16	SITE LIGHTING (EQSET)	1	1	Nr	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM17	CABLING	1	60	m	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM18	NRV	3	375	mm	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM19	NRV	1	100	mm	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM20	CABLING	1	100	m	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM21	PLINTH/BASE SLAB	1	1	m3	3	
02.1	Whitfield - Option 2 Dambridge Wingham	BM22	PLINTH/BASE SLAB	1	3	m3	3	
02.1	Whitfield - Option 2 Dambridge Wingham	BM23	PIPEWORK(CIVIL)	75	63	mm	4	
02.1	Whitfield - Option 2 Dambridge Wingham	BM24						
02.1	Whitfield - Option 2 Dambridge Wingham	BM25	CABLING	2	40	m	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM26	ROAD (EQSET)	1	40	m2	5	
02.1	Whitfield - Option 2 Dambridge Wingham	BM27	PIPEWORK(CIVIL)	20	375	mm	3	
02.1	Whitfield - Option 2 Dambridge Wingham	BM28	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Field/Verge	12,830	560	mm	3	
02.1	Whitfield - Option 2 Dambridge Wingham	BM29	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Type3/4Road	500	560	mm	5	
02.1	Whitfield - Option 2 Dambridge Wingham	BM30						
02.1	Whitfield - Option 2 Dambridge Wingham	BM31	DIRECTIONAL DRILLING - Normal	70	560	mm	3	
02.1	Whitfield - Option 2 Dambridge Wingham	BM32						
02.1	Whitfield - Option 2 Dambridge Wingham	BM33						
02.1	Whitfield - Option 2 Dambridge Wingham	BM34						
02.1	Whitfield - Option 2 Dambridge Wingham	BM35						
02.1	Whitfield - Option 2 Dambridge Wingham	BM36						
02.1	Whitfield - Option 2 Dambridge Wingham	BM37						
02.1	Whitfield - Option 2 Dambridge Wingham	BM38						
02.1	Whitfield - Option 2 Dambridge Wingham	BM39						
02.1	Whitfield - Option 2 Dambridge Wingham	BM40	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Type3/4Road	4	1	Nr	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM41	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge	12	1	Nr	2	
02.1	Whitfield - Option 2 Dambridge Wingham	BM42	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Field/Verge	12	1	Nr	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM43	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Type3/4Road	4	1	Nr	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM44						
02.1	Whitfield - Option 2 Dambridge Wingham	BM45						
02.1	Whitfield - Option 2 Dambridge Wingham	BM46	Easements for pipelines	1	12,830	m	1	
02.1	Whitfield - Option 2 Dambridge Wingham	BM47						
02.1	Whitfield - Option 2 Dambridge Wingham	BM48	MANHOLE	2	3,000	mm	3	
02.1	Whitfield - Option 2 Dambridge Wingham	BM49						
02.1	Whitfield - Option 2 Dambridge Wingham	BM50	Compensation to farmers 11.38 Length (Km)	1	12,830	m	1	
02.2	Whitfield - Option 2 Dambridge Wingham							
02.2	Whitfield - Option 2 Dambridge Wingham	BM01	EIA Screening and mitigating works	1	1	Sum	1	
02.2	Whitfield - Option 2 Dambridge Wingham	BM02						
02.2	Whitfield - Option 2 Dambridge Wingham	BM03	Traffic Management	1	1	Sum		incl
02.2	Whitfield - Option 2 Dambridge Wingham	BM04	Diversions of existing services	1	1	Sum	1	
02.2	Whitfield - Option 2 Dambridge Wingham	BM05	Working near existing mature trees	1	1	Sum	1	

02.2	Whitfield - Option 2 Dambridge Wingham	BM06	OTU	1	700	m3/hr	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM07	DEMOLITION OF SLUDGE DRYING BEDS	1	120	m2	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM08	LANDSCAPE/GROUNDS	1	50	m2	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM09	ROAD (EQSET)	1	90	m2	5
02.2	Whitfield - Option 2 Dambridge Wingham	BM10	PIPE BRIDGE (EQSET)	3	10	m2	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM11	DUCT	1	120	m	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM12	PIPEWORK(CIVIL)	50	450	mm	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM13	PIPEWORK(CIVIL)	5	200	mm	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM14	PLINTH/BASE SLAB	1	3	m3	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM15	SITE CLEARANCE	1	3,200	m2	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM16	CHAMBER	1	4	m2	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM17	PATH (EQSET)	1	750	m2	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM18	ROAD (EQSET)	1	600	m2	5
02.2	Whitfield - Option 2 Dambridge Wingham	BM19	Allowance for 2 No. under pressure tappings	2	560	mm	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM20	Allowance for tempoary service diversion	1	1	Sum	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM21	Decomissioning	1	1	Sum	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM22	LANDSCAPE/GROUNDS	1	950	m2	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM23	AUTOMATIC SAMPLER UNIT	1	1	Nr	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM24	PLINTH/BASE SLAB	1	1	m3	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM25	KIOSK (EQSET)	1	3	m2	6
02.2	Whitfield - Option 2 Dambridge Wingham	BM26	PIPEWORK(CIVIL)	50	450	mm	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM27	CHAMBER (Area)	1	1	m2	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM28	PIPEWORK(CIVIL)	150	450	mm	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM29	CHAMBER (Area)	2	1	m2	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM30	DEMOLITION OF SLUDGE DRYING BEDS	1	400	m2	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM31	SITE CLEARANCE	1	4,750	m2	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM32	ROAD (EQSET)	1	270	m2	5
02.2	Whitfield - Option 2 Dambridge Wingham	BM33	PIPEWORK(CIVIL)	100	200	mm	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM34	PIPEWORK(MEICA)	30	150	mm	2
02.2	Whitfield - Option 2 Dambridge Wingham	BM35	PILING (CFA)	1	4,500	m	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM36	LANDSCAPE/GROUNDS	1	245	m2	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM37	LANDSCAPE/GROUNDS	1	800	m2	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM38	DOSING PIPEWORK(MEICA)	1	20	m	2
02.2	Whitfield - Option 2 Dambridge Wingham	BM39	PIPEWORK(CIVIL)	40	150	mm	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM40	PIPEWORK(CIVIL)	75	250	mm	5
02.2	Whitfield - Option 2 Dambridge Wingham	BM41	Decomissioning	8	1	Sum	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM42	Concrete Plug	2	2	m3	3
02.2	Whitfield - Option 2 Dambridge Wingham	BM43	Demolition of concrete tanks	2	704	m3	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM44	PIPEWORK(CIVIL)	260	150	mm	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM45	PIPEWORK(CIVIL)	60	150	mm	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM46	CHAMBER (Area)	1	4	m2	4
02.2	Whitfield - Option 2 Dambridge Wingham	BM47	FLOW MEASUREMENT	1	150	mm	2
02.2	Whitfield - Option 2 Dambridge Wingham	BM48	GATE VALVE	1	150	mm	2
02.2	Whitfield - Option 2 Dambridge Wingham	BM49	ACTUATED VALVE	1	150	mm	1
02.2	Whitfield - Option 2 Dambridge Wingham	BM50	ACTUATED BUTTERFLY VALVE	1	150	mm	2
02.3	Whitfield - Option 2 Dambridge Wingham						
02.3	Whitfield - Option 2 Dambridge Wingham	BM01	PENSTOCK	1	0	m2	2
02.3	Whitfield - Option 2 Dambridge Wingham	BM02	PIPEWORK(CIVIL)	45	200	mm	4
02.3	Whitfield - Option 2 Dambridge Wingham	BM03	demolition of sludge drying beds	1	1,260	m3	1
02.3	Whitfield - Option 2 Dambridge Wingham	BM04	SITE CLEARANCE	1	2,500	m2	3
02.3	Whitfield - Option 2 Dambridge Wingham	BM05	LANDSCAPE/GROUNDS	1	1,592	m2	4
02.3	Whitfield - Option 2 Dambridge Wingham	BM06	CHAMBER (Area)	6	1	m2	4
02.3	Whitfield - Option 2 Dambridge Wingham	BM07	Physical Modelling Study	1	1	Sum	1
02.3	Whitfield - Option 2 Dambridge Wingham	BM08	Physical Modelling Study	1	1	Sum	1
02.3	Whitfield - Option 2 Dambridge Wingham	BM09	Physical Modelling Study	1	1	Sum	1
02.3	Whitfield - Option 2 Dambridge Wingham	BM10	Physical Modelling Study	1	1	Sum	1
02.3	Whitfield - Option 2 Dambridge Wingham	BM11					
02.3	Whitfield - Option 2 Dambridge Wingham	BM12	LEVEL MEASUREMENT	3	1	Nr	3
02.3	Whitfield - Option 2 Dambridge Wingham	BM13	LEVEL MEASUREMENT	3	1	Nr	3
02.3	Whitfield - Option 2 Dambridge Wingham	BM14	PIPEWORK(MEICA)	35	200	mm	2
02.3	Whitfield - Option 2 Dambridge Wingham	BM15	PLINTH/BASE SLAB	1	90	m3	2
02.3	Whitfield - Option 2 Dambridge Wingham	BM16	DOSING PIPEWORK(MEICA)	1	70	m	2
02.3	Whitfield - Option 2 Dambridge Wingham	BM17	PIPEWORK(MEICA)	60	50	mm	2
02.3	Whitfield - Option 2 Dambridge Wingham	BM18	SITE CLEARANCE	1	300	m2	3
02.3	Whitfield - Option 2 Dambridge Wingham	BM19	SITE CLEARANCE	1	1,800	m2	3

02.3	Whitfield - Option 2 Dambridge Wingham	BM20	CHAMBER (Area)	1	5	m2	4	
02.3	Whitfield - Option 2 Dambridge Wingham	BM21	FLOW MEASUREMENT (CERTIFICATION)	1	1	Nr		incl.
02.3	Whitfield - Option 2 Dambridge Wingham	BM22	WEIR (EQSET)	2	2	m	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM23	Decomissioning	1	1	Sum	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM24	PIPEWORK(CIVIL)	120	250	mm	5	
02.3	Whitfield - Option 2 Dambridge Wingham	BM25	Coring Concrete Wall	1	300	mm	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM26	PIPEWORK(CIVIL)	140	50	mm	3	
02.3	Whitfield - Option 2 Dambridge Wingham	BM27	Physical Modelling Study	1	1	Sum	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM28	Mecana Filtration	1	4	Nr	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM29	DISSOLVED METAL MEASUREMENT	1	1	Nr	2	
02.3	Whitfield - Option 2 Dambridge Wingham	BM30	PHOSPHATE MEASUREMENT	1	1	Nr	2	
02.3	Whitfield - Option 2 Dambridge Wingham	BM31						
02.3	Whitfield - Option 2 Dambridge Wingham	BM32	LEVEL MEASUREMENT	1	1	Nr	3	
02.3	Whitfield - Option 2 Dambridge Wingham	BM33	LEVEL MEASUREMENT	2	1	Nr	3	
02.3	Whitfield - Option 2 Dambridge Wingham	BM34	STORM TANK	2	539	m3	2	
02.3	Whitfield - Option 2 Dambridge Wingham	BM35	POWER SUPPLY - New Transformer (outside)	1	450	kVA	2	
02.3	Whitfield - Option 2 Dambridge Wingham	BM36						
02.3	Whitfield - Option 2 Dambridge Wingham	BM37	TELEMETRY (EQSET)	1	1	Nr	2	
02.3	Whitfield - Option 2 Dambridge Wingham	BM38	SITE LIGHTING (EQSET)	1	1	Nr	2	
02.3	Whitfield - Option 2 Dambridge Wingham	BM39						
02.3	Whitfield - Option 2 Dambridge Wingham	BM40	CABLING	1	90	m	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM41	DUCT	3	20	m	3	
02.3	Whitfield - Option 2 Dambridge Wingham	BM42						
02.3	Whitfield - Option 2 Dambridge Wingham	BM43						
02.3	Whitfield - Option 2 Dambridge Wingham	BM44	DRAWPIT	12	1	m2	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM45	CABLING	1	45	m	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM46	CABLING	1	45	m	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM47	DUCT	3	35	m	3	
02.3	Whitfield - Option 2 Dambridge Wingham	BM48	CABLING	1	45	m	1	
02.3	Whitfield - Option 2 Dambridge Wingham	BM49						
02.3	Whitfield - Option 2 Dambridge Wingham	BM50	CABLING	1	100	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham							
02.4	Whitfield - Option 2 Dambridge Wingham	BM01	DUCT	3	80	m	3	
02.4	Whitfield - Option 2 Dambridge Wingham	BM02	CABLETRAY	2	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM03	CABLING	1	100	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM04	CABLING	2	15	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM05	DUCT	2	10	m	3	
02.4	Whitfield - Option 2 Dambridge Wingham	BM06	CABLETRAY	1	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM07						
02.4	Whitfield - Option 2 Dambridge Wingham	BM08	CABLING	1	2,400	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM09	DUCT	6	185	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM10	CABLETRAY	4	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM11	CABLING	1	200	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM12	CABLING	1	540	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM13	DUCT	2	170	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM14	CABLETRAY	1	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM15	CABLING	1	540	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM16	CABLING	1	170	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM17	DUCT	2	155	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM18	CABLETRAY	2	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM19						
02.4	Whitfield - Option 2 Dambridge Wingham	BM20	CABLING	1	680	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM21	DUCT	2	155	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM22	CABLETRAY	1	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM23	CABLING	1	680	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM24	CABLING	1	2,760	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM25	DUCT	6	210	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM26	CABLETRAY	4	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM27	CABLING	1	2,760	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM28	CABLING	1	630	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM29	DUCT	3	190	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM30	CABLETRAY	1	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM31	CABLING	1	630	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM32	CABLING	1	1,800	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM33	DUCT	3	280	m	2	

02.4	Whitfield - Option 2 Dambridge Wingham	BM34	CABLETRAY	2	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM35	CABLING	1	1,800	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM36	CABLING	1	150	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM37	DUCT	3	35	m	3	
02.4	Whitfield - Option 2 Dambridge Wingham	BM38	CABLETRAY	2	5	m	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM39	CABLING	1	150	m	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM40	DISTRIBUTION BOARD	1	8	Nr	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM41						
02.4	Whitfield - Option 2 Dambridge Wingham	BM42	System Integration	1	1	Sum	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM43	F: GRIT REMOVAL	1	458	l/s	1	
02.4	Whitfield - Option 2 Dambridge Wingham	BM44	F: OVERFLOW	1	21,773	m3/d	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM45	F: SCREENING HANDLING NO BAGGING	1	4	m3/hr	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM46						
02.4	Whitfield - Option 2 Dambridge Wingham	BM47	F: SCREENING	1	458	l/s	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM48	Inlet works structure	1	458	l/s	2	
02.4	Whitfield - Option 2 Dambridge Wingham	BM49	F: FERRIC CHLORIDE DOSING	1	6	MLD	4	
02.4	Whitfield - Option 2 Dambridge Wingham	BM50	F: AERATED ACTIVATED SLUDGE	1	8,120	m3/hr	3	
02.5	Whitfield - Option 2 Dambridge Wingham							
02.5	Whitfield - Option 2 Dambridge Wingham	BM01	F: COMMON CONTROL	1	350	kW	1	
02.5	Whitfield - Option 2 Dambridge Wingham	BM02	F: FERRIC CHLORIDE DOSING	1	6	MLD	4	
02.5	Whitfield - Option 2 Dambridge Wingham	BM03	F: PUMPING	1	40	kW	3	
02.5	Whitfield - Option 2 Dambridge Wingham	BM04	F: SETTLEMENT (NON-WSW)	1	45,292	PE	2	
02.5	Whitfield - Option 2 Dambridge Wingham	BM05	F: WASHWATER SYSTEM (FUNC)	1	20	m3	1	
02.5	Whitfield - Option 2 Dambridge Wingham	BM06	F: PUMPING	1	10	kW	3	
02.5	Whitfield - Option 2 Dambridge Wingham	BM07	F: FERRIC CHLORIDE DOSING	1	6	MLD	4	
02.5	Whitfield - Option 2 Dambridge Wingham	BM08	F: PUMPING	1	55	kW	3	
02.5	Whitfield - Option 2 Dambridge Wingham	BM09						
02.5	Whitfield - Option 2 Dambridge Wingham	BM10	F: UNTHICKENED SLUDGE STORAGE	1	631	m3	4	
02.5	Whitfield - Option 2 Dambridge Wingham	BM11	F: STORM WATER STORAGE	2	539	m3	3	
02.5	Whitfield - Option 2 Dambridge Wingham	BM12	SCRUBBER (EQSET)	1	5,048	m3/hr	4	
02.5	Whitfield - Option 2 Dambridge Wingham	BM13	ODOUR COVER(EQSET)	1	127	m2	2	
02.5	Whitfield - Option 2 Dambridge Wingham	BM14						
02.5	Whitfield - Option 2 Dambridge Wingham	BM15						
02.5	Whitfield - Option 2 Dambridge Wingham	BM16						
02.5	Whitfield - Option 2 Dambridge Wingham	BM17						
02.5	Whitfield - Option 2 Dambridge Wingham	BM18	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	74	300	mm	5	
02.5	Whitfield - Option 2 Dambridge Wingham	BM19	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	222	300	mm	5	
02.5	Whitfield - Option 2 Dambridge Wingham	BM20	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	146	375	mm	5	
02.5	Whitfield - Option 2 Dambridge Wingham	BM21	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	85	300	mm	5	
02.5	Whitfield - Option 2 Dambridge Wingham	BM22	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	88	300	mm	5	
02.5	Whitfield - Option 2 Dambridge Wingham	BM23	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	6	1,350	mm	4	
02.5	Whitfield - Option 2 Dambridge Wingham	BM24	Gravity Sewer - Manholes Depth <1.5 Type3/4Road	3	1,350	mm	4	
02.5	Whitfield - Option 2 Dambridge Wingham	BM25	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	223	450	mm	5	
02.5	Whitfield - Option 2 Dambridge Wingham	BM26	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	1	1,350	mm	4	
02.5	Whitfield - Option 2 Dambridge Wingham	BM27	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	119	300	mm	5	
02.5	Whitfield - Option 2 Dambridge Wingham	BM28	Temporary - Over-pumping (6") Over-pumping (6")	10	104	hrs		incl.
02.5	Whitfield - Option 2 Dambridge Wingham	BM29	Temporary - Over-pumping (6") Over-pumping (6")	1	3,000	hrs		incl.
02.5	Whitfield - Option 2 Dambridge Wingham	BM30	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	5,000	350	mm	5	
02.5	Whitfield - Option 2 Dambridge Wingham	BM31						
02.5	Whitfield - Option 2 Dambridge Wingham	BM32						
02.5	Whitfield - Option 2 Dambridge Wingham	BM33						
02.5	Whitfield - Option 2 Dambridge Wingham	BM34						
02.5	Whitfield - Option 2 Dambridge Wingham	BM35						
02.5	Whitfield - Option 2 Dambridge Wingham	BM36						
02.5	Whitfield - Option 2 Dambridge Wingham	BM37						
02.5	Whitfield - Option 2 Dambridge Wingham	BM38						
02.5	Whitfield - Option 2 Dambridge Wingham	BM39						
02.5	Whitfield - Option 2 Dambridge Wingham	BM40						
02.5	Whitfield - Option 2 Dambridge Wingham	BM41						
02.5	Whitfield - Option 2 Dambridge Wingham	BM42						
02.5	Whitfield - Option 2 Dambridge Wingham	BM43						
02.5	Whitfield - Option 2 Dambridge Wingham	BM44						
02.5	Whitfield - Option 2 Dambridge Wingham	BM45						
02.5	Whitfield - Option 2 Dambridge Wingham	BM46						
02.5	Whitfield - Option 2 Dambridge Wingham	BM47						

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03.2	Whitfield - Option 2A Dambridge MBR	BM11	PIPEWORK(CIVIL)	5	200	mm	4
03.2	Whitfield - Option 2A Dambridge MBR	BM12	Road Reinstatement	1	3	m3	3
03.2	Whitfield - Option 2A Dambridge MBR	BM13	SITE CLEARANCE	1	3,200	m2	3
03.2	Whitfield - Option 2A Dambridge MBR	BM14	CHAMBER	1	4	m2	4
03.2	Whitfield - Option 2A Dambridge MBR	BM15	PATH (EQSET)	1	750	m2	3
03.2	Whitfield - Option 2A Dambridge MBR	BM16	ROAD (EQSET)	1	600	m2	5
03.2	Whitfield - Option 2A Dambridge MBR	BM17	Tappings	2	560	mm	1
03.2	Whitfield - Option 2A Dambridge MBR	BM18	Diversions of existing services	1	1	Sum	1
03.2	Whitfield - Option 2A Dambridge MBR	BM19	Decomissioning	1	1	Sum	1
03.2	Whitfield - Option 2A Dambridge MBR	BM20	LANDSCAPE/GROUNDS	1	950	m2	4
03.2	Whitfield - Option 2A Dambridge MBR	BM21	AUTOMATIC SAMPLER UNIT	1	1	Nr	1
03.2	Whitfield - Option 2A Dambridge MBR	BM22	PLINTH/BASE SLAB	1	1	m3	3
03.2	Whitfield - Option 2A Dambridge MBR	BM23	KIOSK (EQSET)	1	3	m2	6
03.2	Whitfield - Option 2A Dambridge MBR	BM24	PIPEWORK(CIVIL)	180	450	mm	4
03.2	Whitfield - Option 2A Dambridge MBR	BM25	CHAMBER	5	1	m2	4
03.2	Whitfield - Option 2A Dambridge MBR	BM26	Refurbish 2 No PST and convert to Storm Tanks	1	1	Sum	1
03.2	Whitfield - Option 2A Dambridge MBR	BM27	MIXER	8	5	kW	3
03.2	Whitfield - Option 2A Dambridge MBR	BM28	PIPEWORK(CIVIL)	50	300	mm	5
03.2	Whitfield - Option 2A Dambridge MBR	BM29	Coring Concrete Wall	2	500	mm	1
03.2	Whitfield - Option 2A Dambridge MBR	BM30	LEVEL MEASUREMENT	2	1	Nr	3
03.2	Whitfield - Option 2A Dambridge MBR	BM31	LEVEL MEASUREMENT	2	1	Nr	3
03.2	Whitfield - Option 2A Dambridge MBR	BM32	DEMOLITION OF SLUDGE DRYING BEDS	1	400	m2	1
03.2	Whitfield - Option 2A Dambridge MBR	BM33	SITE CLEARANCE	1	4,200	m2	3
03.2	Whitfield - Option 2A Dambridge MBR	BM34	ROAD (EQSET)	1	540	m2	5
03.2	Whitfield - Option 2A Dambridge MBR	BM35	PIPEWORK(CIVIL)	100	200	mm	4
03.2	Whitfield - Option 2A Dambridge MBR	BM36	PIPEWORK(MEICA)	130	150	mm	2
03.2	Whitfield - Option 2A Dambridge MBR	BM37	PILING (CFA)	1	4,500	m	1
03.2	Whitfield - Option 2A Dambridge MBR	BM38	LANDSCAPE/GROUNDS	1	3,395	m2	4
03.2	Whitfield - Option 2A Dambridge MBR	BM39	CHAMBER	6	1	m2	4
03.2	Whitfield - Option 2A Dambridge MBR	BM40	DOSING PIPEWORK(MEICA)	1	20	m	2
03.2	Whitfield - Option 2A Dambridge MBR	BM41	PIPEWORK(CIVIL)	40	150	mm	4
03.2	Whitfield - Option 2A Dambridge MBR	BM42	ANOXIC TANK	1	33	m2	4
03.2	Whitfield - Option 2A Dambridge MBR	BM43	PIPEWORK(CIVIL)	300	200	mm	4
03.2	Whitfield - Option 2A Dambridge MBR	BM44	PIPEWORK(CIVIL)	150	200	mm	4
03.2	Whitfield - Option 2A Dambridge MBR	BM45	MIXER	1	3	kW	4
03.2	Whitfield - Option 2A Dambridge MBR	BM46	PIPEWORK(CIVIL)	20	150	mm	4
03.2	Whitfield - Option 2A Dambridge MBR	BM47	CHAMBER	1	4	m2	4
03.2	Whitfield - Option 2A Dambridge MBR	BM48	FLOW MEASUREMENT	1	150	mm	2
03.2	Whitfield - Option 2A Dambridge MBR	BM49	GATE VALVE	1	150	mm	2
03.2	Whitfield - Option 2A Dambridge MBR	BM50	ACTUATED VALVE	1	150	mm	1
03.3	Whitfield - Option 2A Dambridge MBR						
03.3	Whitfield - Option 2A Dambridge MBR	BM01	ACTUATED BUTTERFLY VALVE	1	150	mm	2
03.3	Whitfield - Option 2A Dambridge MBR	BM02	PENSTOCK	1	0	m2	2
03.3	Whitfield - Option 2A Dambridge MBR	BM03	Demolition of concrete tanks	1	400	m3	1
03.3	Whitfield - Option 2A Dambridge MBR	BM04	SITE CLEARANCE	1	400	m2	3
03.3	Whitfield - Option 2A Dambridge MBR	BM05	LANDSCAPE/GROUNDS	1	1,592	m2	4
03.3	Whitfield - Option 2A Dambridge MBR	BM06	Physical Modelling Study	1	1	Sum	1
03.3	Whitfield - Option 2A Dambridge MBR	BM07	Physical Modelling Study	1	1	Sum	1
03.3	Whitfield - Option 2A Dambridge MBR	BM08	Physical Modelling Study	1	1	Sum	1
03.3	Whitfield - Option 2A Dambridge MBR	BM09	PIPEWORK(CIVIL)	160	150	mm	4
03.3	Whitfield - Option 2A Dambridge MBR	BM10	LEVEL MEASUREMENT	3	1	Nr	3
03.3	Whitfield - Option 2A Dambridge MBR	BM11	LEVEL MEASUREMENT	3	1	Nr	3
03.3	Whitfield - Option 2A Dambridge MBR	BM12	MBR	1	1	Sum	1
03.3	Whitfield - Option 2A Dambridge MBR	BM13	MIXER	1	0	kW	3
03.3	Whitfield - Option 2A Dambridge MBR	BM14	DOSING PIPEWORK(MEICA)	1	210	m	2
03.3	Whitfield - Option 2A Dambridge MBR	BM15	PIPEWORK(MEICA)	60	50	mm	2
03.3	Whitfield - Option 2A Dambridge MBR	BM16	SITE CLEARANCE	1	300	m2	3
03.3	Whitfield - Option 2A Dambridge MBR	BM17	SITE CLEARANCE	1	1,800	m2	3
03.3	Whitfield - Option 2A Dambridge MBR	BM18	CHAMBER	1	5	m2	4
03.3	Whitfield - Option 2A Dambridge MBR	BM19	FLOW MEASUREMENT (CERTIFICATION)	1	1	Nr	incl.
03.3	Whitfield - Option 2A Dambridge MBR	BM20	WEIR (EQSET)	2	2	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM21	Decomissioning	1	1	Sum	1
03.3	Whitfield - Option 2A Dambridge MBR	BM22	PIPEWORK(CIVIL)	120	250	mm	5
03.3	Whitfield - Option 2A Dambridge MBR	BM23	Coring Concrete Wall	1	300	mm	1
03.3	Whitfield - Option 2A Dambridge MBR	BM24	PIPEWORK(CIVIL)	140	50	mm	3

03.3	Whitfield - Option 2A Dambridge MBR	BM25	DISSOLVED METAL MEASUREMENT	1	1	Nr	2
03.3	Whitfield - Option 2A Dambridge MBR	BM26	PHOSPHATE MEASUREMENT	1	1	Nr	2
03.3	Whitfield - Option 2A Dambridge MBR	BM27	LEVEL MEASUREMENT	1	1	Nr	3
03.3	Whitfield - Option 2A Dambridge MBR	BM28	LEVEL MEASUREMENT	2	1	Nr	3
03.3	Whitfield - Option 2A Dambridge MBR	BM29	POWER SUPPLY - New Transformer (outside)	1	500	kVA	2
03.3	Whitfield - Option 2A Dambridge MBR	BM30	TELEMETRY (EQSET)	1	1	Nr	2
03.3	Whitfield - Option 2A Dambridge MBR	BM31	SITE LIGHTING (EQSET)	1	1	Nr	2
03.3	Whitfield - Option 2A Dambridge MBR	BM32	CABLING	1	90	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM33	DUCT	3	20	m	3
03.3	Whitfield - Option 2A Dambridge MBR	BM34	DRAWPIT	12	1	m2	1
03.3	Whitfield - Option 2A Dambridge MBR	BM35	CABLING	1	45	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM36	CABLING	1	45	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM37	DUCT	3	35	m	3
03.3	Whitfield - Option 2A Dambridge MBR	BM38	CABLING	1	45	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM39	CABLING	1	100	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM40	DUCT	3	80	m	3
03.3	Whitfield - Option 2A Dambridge MBR	BM41	CABLETRAY	2	5	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM42	CABLING	1	100	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM43	CABLING	2	15	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM44	DUCT	2	10	m	3
03.3	Whitfield - Option 2A Dambridge MBR	BM45	CABLETRAY	1	5	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM46	CABLING	1	2,400	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM47	DUCT	6	185	m	3
03.3	Whitfield - Option 2A Dambridge MBR	BM48	CABLETRAY	4	5	m	1
03.3	Whitfield - Option 2A Dambridge MBR	BM49	CABLING	1	200	m	2
03.3	Whitfield - Option 2A Dambridge MBR	BM50	CABLING	1	540	m	1
03.4	Whitfield - Option 2A Dambridge MBR						
03.4	Whitfield - Option 2A Dambridge MBR	BM01	DUCT	2	170	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM02	CABLETRAY	1	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM03	CABLING	1	540	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM04	CABLING	1	170	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM05	DUCT	2	155	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM06	CABLETRAY	2	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM07	CABLING	1	680	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM08	DUCT	2	155	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM09	CABLETRAY	1	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM10	CABLING	1	680	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM11	CABLING	1	2,760	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM12	DUCT	6	210	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM13	CABLETRAY	4	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM14	CABLING	1	2,760	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM15	CABLING	1	630	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM16	DUCT	3	190	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM17	CABLETRAY	1	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM18	CABLING	1	630	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM19	CABLING	1	1,800	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM20	DUCT	3	280	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM21	CABLETRAY	2	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM22	CABLING	1	1,800	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM23	CABLING	1	150	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM24	DUCT	3	35	m	3
03.4	Whitfield - Option 2A Dambridge MBR	BM25	CABLETRAY	2	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM26	CABLING	1	150	m	2
03.4	Whitfield - Option 2A Dambridge MBR	BM27	DISTRIBUTION BOARD	1	8	Nr	1
03.4	Whitfield - Option 2A Dambridge MBR	BM28	System Integration	1	1	Sum	2
03.4	Whitfield - Option 2A Dambridge MBR	BM29	CABLING	1	420	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM30	DUCT	3	60	m	3
03.4	Whitfield - Option 2A Dambridge MBR	BM31	CABLETRAY	1	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM32	CABLING	1	195	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM33	DUCT	2	55	m	3
03.4	Whitfield - Option 2A Dambridge MBR	BM34	CABLETRAY	1	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM35	CABLING	3	80	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM36	DUCT	2	70	m	3
03.4	Whitfield - Option 2A Dambridge MBR	BM37	CABLETRAY	1	5	m	1
03.4	Whitfield - Option 2A Dambridge MBR	BM38	CABLING	3	40	m	1

03.4	Whitfield - Option 2A Dambridge MBR	BM39	CABLETRAY	1	5	m	1	
03.4	Whitfield - Option 2A Dambridge MBR	BM40	F: GRIT REMOVAL	1	458	l/s	1	
03.4	Whitfield - Option 2A Dambridge MBR	BM41	F: OVERFLOW	1	21,773	m3/d	2	
03.4	Whitfield - Option 2A Dambridge MBR	BM42	F: SCREENING HANDLING NO BAGGING	1	4	m3/hr	2	
03.4	Whitfield - Option 2A Dambridge MBR	BM43						
03.4	Whitfield - Option 2A Dambridge MBR	BM44	F: SCREENING	1	458	l/s	2	
03.4	Whitfield - Option 2A Dambridge MBR	BM45	INLET WORKS STRUCTURE	1	458	l/s	2	
03.4	Whitfield - Option 2A Dambridge MBR	BM46	F: SCREENING	1	105	l/s	2	
03.4	Whitfield - Option 2A Dambridge MBR	BM47	F: SCREENING HANDLING NO BAGGING	1	3	m3/hr	2	
03.4	Whitfield - Option 2A Dambridge MBR	BM48	F: WASHWATER SYSTEM (FUNC)	1	20	m3	1	
03.4	Whitfield - Option 2A Dambridge MBR	BM49	conversion of PST to Storm Tank, and the inclusion of 8 No. flyjet mixer	1	1	Sum	1	
03.4	Whitfield - Option 2A Dambridge MBR	BM50	F: PUMPING	1	6	kW	3	
03.5	Whitfield - Option 2A Dambridge MBR							
03.5	Whitfield - Option 2A Dambridge MBR	BM01	F: SETTLEMENT (NON-WSW)	1	4,592	PE	4	
03.5	Whitfield - Option 2A Dambridge MBR	BM02	F: FERRIC CHLORIDE DOSING	1	6	MLD	4	
03.5	Whitfield - Option 2A Dambridge MBR	BM03	F: PUMPING	1	3	kW	4	
03.5	Whitfield - Option 2A Dambridge MBR	BM04	F: AERATED ACTIVATED SLUDGE	1	2,000	m3/hr	3	
03.5	Whitfield - Option 2A Dambridge MBR	BM05	F: BALANCING	1	200	m3	2	
03.5	Whitfield - Option 2A Dambridge MBR	BM06	F: FERRIC CHLORIDE DOSING	1	6	MLD	4	
03.5	Whitfield - Option 2A Dambridge MBR	BM07	F: PUMPING	1	15	kW	3	
03.5	Whitfield - Option 2A Dambridge MBR	BM08	F: SAND FILTRATION (WTW)	1	40	m2	1	
03.5	Whitfield - Option 2A Dambridge MBR	BM09	F: UNTHICKENED SLUDGE STORAGE	1	631	m3	4	
03.5	Whitfield - Option 2A Dambridge MBR	BM10						
03.5	Whitfield - Option 2A Dambridge MBR	BM11						
03.5	Whitfield - Option 2A Dambridge MBR	BM12						
03.5	Whitfield - Option 2A Dambridge MBR	BM13						
03.5	Whitfield - Option 2A Dambridge MBR	BM14	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	74	300	mm	5	
03.5	Whitfield - Option 2A Dambridge MBR	BM15	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	222	300	mm	5	
03.5	Whitfield - Option 2A Dambridge MBR	BM16	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	146	375	mm	5	
03.5	Whitfield - Option 2A Dambridge MBR	BM17	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	85	300	mm	5	
03.5	Whitfield - Option 2A Dambridge MBR	BM18	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	88	300	mm	5	
03.5	Whitfield - Option 2A Dambridge MBR	BM19	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	6	1,350	mm	4	
03.5	Whitfield - Option 2A Dambridge MBR	BM20	Gravity Sewer - Manholes Depth <1.5 Type3/4Road	3	1,350	mm	4	
03.5	Whitfield - Option 2A Dambridge MBR	BM21	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	223	450	mm	5	
03.5	Whitfield - Option 2A Dambridge MBR	BM22	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	1	1,350	mm	4	
03.5	Whitfield - Option 2A Dambridge MBR	BM23	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	119	300	mm	5	
03.5	Whitfield - Option 2A Dambridge MBR	BM24	Temporary - Over-pumping (6") Over-pumping (6")	10	104	hrs		inc
03.5	Whitfield - Option 2A Dambridge MBR	BM25	Temporary - Over-pumping (6") Over-pumping (6")	1	3,000	hrs		inc
03.5	Whitfield - Option 2A Dambridge MBR	BM26	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	5,000	350	mm	5	
03.5	Whitfield - Option 2A Dambridge MBR	BM27						
03.5	Whitfield - Option 2A Dambridge MBR	BM28						
03.5	Whitfield - Option 2A Dambridge MBR	BM29						
03.5	Whitfield - Option 2A Dambridge MBR	BM30						
03.5	Whitfield - Option 2A Dambridge MBR	BM31						
03.5	Whitfield - Option 2A Dambridge MBR	BM32						
03.5	Whitfield - Option 2A Dambridge MBR	BM33						
03.5	Whitfield - Option 2A Dambridge MBR	BM34						
03.5	Whitfield - Option 2A Dambridge MBR	BM35						
03.5	Whitfield - Option 2A Dambridge MBR	BM36						
03.5	Whitfield - Option 2A Dambridge MBR	BM37						
03.5	Whitfield - Option 2A Dambridge MBR	BM38						
03.5	Whitfield - Option 2A Dambridge MBR	BM39						
03.5	Whitfield - Option 2A Dambridge MBR	BM40						
03.5	Whitfield - Option 2A Dambridge MBR	BM41						
03.5	Whitfield - Option 2A Dambridge MBR	BM42						
03.5	Whitfield - Option 2A Dambridge MBR	BM43						
03.5	Whitfield - Option 2A Dambridge MBR	BM44						
03.5	Whitfield - Option 2A Dambridge MBR	BM45						
03.5	Whitfield - Option 2A Dambridge MBR	BM46						
03.5	Whitfield - Option 2A Dambridge MBR	BM47						
03.5	Whitfield - Option 2A Dambridge MBR	BM48						
03.5	Whitfield - Option 2A Dambridge MBR	BM49						
03.5	Whitfield - Option 2A Dambridge MBR	BM50						
04.1	Whitfield - Option 3 Ground Discharge							
04.1	Whitfield - Option 3 Ground Discharge	BM01	Modifications to WPS Structure					

04.1	Whitfield - Option 3 Ground Discharge	BM02	CHAMBER	1	32	m3	5
04.1	Whitfield - Option 3 Ground Discharge	BM03	PIPEWORK(CIVIL)	60	375	mm	4
04.1	Whitfield - Option 3 Ground Discharge	BM04	GATE VALVE	3	375	mm	2
04.1	Whitfield - Option 3 Ground Discharge	BM05	MOTOR CONTROL CENTRE (M.C.C.)	1	70	kw	1
04.1	Whitfield - Option 3 Ground Discharge	BM06	KIOSK(EQSET)	1	4	m3	6
04.1	Whitfield - Option 3 Ground Discharge	BM07	BOUNDARY STRUCTURES - Fencing	1	100	m	5
04.1	Whitfield - Option 3 Ground Discharge	BM08	FLOW MEASUREMENT	1	375	mm	2
04.1	Whitfield - Option 3 Ground Discharge	BM09	CHAMBER	1	4	m3	4
04.1	Whitfield - Option 3 Ground Discharge	BM10	BAUER CONNECTION	1	300	mm	1
04.1	Whitfield - Option 3 Ground Discharge	BM11	PIPEWORK(CIVIL)	20	100	mm	5
04.1	Whitfield - Option 3 Ground Discharge	BM12	NUTRIOX DOSING SYSTEM	1	250	m3	1
04.1	Whitfield - Option 3 Ground Discharge	BM13	PUMPSET WASTEWATER	3	35	kw	2
04.1	Whitfield - Option 3 Ground Discharge	BM14	CHEMICAL SHOWER/EYEBATH	1	1	Nr	2
04.1	Whitfield - Option 3 Ground Discharge	BM15	SITE LIGHTING (EQSET)	1	1	Nr	2
04.1	Whitfield - Option 3 Ground Discharge	BM16	CABLING	1	60	m	1
04.1	Whitfield - Option 3 Ground Discharge	BM17	NRV	3	375	mm	2
04.1	Whitfield - Option 3 Ground Discharge	BM18	NRV	1	100	mm	2
04.1	Whitfield - Option 3 Ground Discharge	BM19	CABLING	1	100	m	1
04.1	Whitfield - Option 3 Ground Discharge	BM20	PLINTH/BASE SLAB	1	1	m3	3
04.1	Whitfield - Option 3 Ground Discharge	BM21	PLINTH/BASE SLAB	1	3	m3	3
04.1	Whitfield - Option 3 Ground Discharge	BM22	PIPEWORK(CIVIL)	75	63	mm	3
04.1	Whitfield - Option 3 Ground Discharge	BM23	CABLING	2	40	m	1
04.1	Whitfield - Option 3 Ground Discharge	BM24	ROAD (EQSET)	1	40	m2	5
04.1	Whitfield - Option 3 Ground Discharge	BM25	PIPEWORK(CIVIL)	20	375	mm	4
04.1	Whitfield - Option 3 Ground Discharge	BM26	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Field/Verge	2,140	560	mm	3
04.1	Whitfield - Option 3 Ground Discharge	BM27	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Type3/4Road	10	560	mm	5
04.1	Whitfield - Option 3 Ground Discharge	BM28	DIRECTIONAL DRILLING - Normal	150	560	mm	3
04.1	Whitfield - Option 3 Ground Discharge	BM29	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge	2	1	Nr	2
04.1	Whitfield - Option 3 Ground Discharge	BM30	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Field/Verge	6	1	Nr	1
04.1	Whitfield - Option 3 Ground Discharge	BM31	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge	4	1	Nr	2
04.1	Whitfield - Option 3 Ground Discharge	BM32	Easements for pipelines	1	2,140	m	1
04.1	Whitfield - Option 3 Ground Discharge	BM33	PIPEWORK(CIVIL)	35	90	mm	4
04.1	Whitfield - Option 3 Ground Discharge	BM34	CABLING	1	850	m	1
04.1	Whitfield - Option 3 Ground Discharge	BM35	CABLING	1	100	m	2
04.1	Whitfield - Option 3 Ground Discharge	BM36					
04.1	Whitfield - Option 3 Ground Discharge	BM37	CCTV	1	20	Nr	2
04.1	Whitfield - Option 3 Ground Discharge	BM38	BOUNDARY STRUCTURES - Fencing	1	1,150	m	2
04.1	Whitfield - Option 3 Ground Discharge	BM39	ACCESS GATES	3	1	Nr	2
04.1	Whitfield - Option 3 Ground Discharge	BM40	ROAD (EQSET)	1	3,210	m2	2
04.1	Whitfield - Option 3 Ground Discharge	BM41	ROAD (EQSET)	1	2,200	m2	3
04.1	Whitfield - Option 3 Ground Discharge	BM42	SITE CLEARANCE	1	18,900	m2	1
04.1	Whitfield - Option 3 Ground Discharge	BM43	SITE CLEARANCE	1	27,000	m2	1
04.1	Whitfield - Option 3 Ground Discharge	BM44	LANDSCAPE/GROUNDS	1	27,000	m2	1
04.1	Whitfield - Option 3 Ground Discharge	BM45	Land purchase (agricultural)	1	45,900	m2	1
04.1	Whitfield - Option 3 Ground Discharge	BM46	Land purchase (agricultural)	1	1,200	m2	1
04.1	Whitfield - Option 3 Ground Discharge	BM47	ROAD (EQSET)	1	1,200	m2	3
04.1	Whitfield - Option 3 Ground Discharge	BM48	LANDSCAPE/GROUNDS	1	1,000	m2	3
04.1	Whitfield - Option 3 Ground Discharge	BM49	LANDSCAPE/GROUNDS	1	600	m2	3
04.1	Whitfield - Option 3 Ground Discharge	BM50	LANDSCAPE/GROUNDS	1	1,000	m2	3
04.2	Whitfield - Option 3 Ground Discharge						
04.2	Whitfield - Option 3 Ground Discharge	BM01	LANDSCAPE/GROUNDS	1	1,600	m2	4
04.2	Whitfield - Option 3 Ground Discharge	BM02	LANDSCAPE/GROUNDS	1	1,100	m2	4
04.2	Whitfield - Option 3 Ground Discharge	BM03	LANDSCAPE/GROUNDS	1	2,500	m2	4
04.2	Whitfield - Option 3 Ground Discharge	BM04	PIPEWORK(CIVIL)	30	300	mm	5
04.2	Whitfield - Option 3 Ground Discharge	BM05	PIPEWORK(CIVIL)	290	300	mm	5
04.2	Whitfield - Option 3 Ground Discharge	BM06	MANHOLE	6	1,200	mm	3
04.2	Whitfield - Option 3 Ground Discharge	BM07	DELIVERY SLAB / AREA	1	900	m2	2
04.2	Whitfield - Option 3 Ground Discharge	BM08	PIPEWORK(CIVIL)	20	150	mm	4
04.2	Whitfield - Option 3 Ground Discharge	BM09	PIPEWORK(CIVIL)	30	450	mm	4
04.2	Whitfield - Option 3 Ground Discharge	BM10	PIPEWORK(CIVIL)	115	200	mm	4
04.2	Whitfield - Option 3 Ground Discharge	BM11	PIPEWORK(CIVIL)	100	150	mm	4
04.2	Whitfield - Option 3 Ground Discharge	BM12	GATE VALVE	2	150	mm	2
04.2	Whitfield - Option 3 Ground Discharge	BM13	CHAMBER (volume)	1	12	m3	4
04.2	Whitfield - Option 3 Ground Discharge	BM14	WEIR (EQSET)	2	2	m	1
04.2	Whitfield - Option 3 Ground Discharge	BM15	FLOW MEASUREMENT (CERTIFICATION)	1	1	Nr	incl.

04.2	Whitfield - Option 3 Ground Discharge	BM16	ULTRASOUND TRANSDUCER(EQSET)	1	1	Nr	1
04.2	Whitfield - Option 3 Ground Discharge	BM17	NITRATE MEASUREMENT	1	1	Nr	1
04.2	Whitfield - Option 3 Ground Discharge	BM18	AMMONIA MEASUREMENT	1	1	Nr	3
04.2	Whitfield - Option 3 Ground Discharge	BM19	TEMPERATURE MEASUREMENT	1	1	Nr	3
04.2	Whitfield - Option 3 Ground Discharge	BM20	TURBIDITY MEASUREMENT (Waste Water)	1	1	Nr	3
04.2	Whitfield - Option 3 Ground Discharge	BM21	RTC Unit Controller	1	1	Sum	1
04.2	Whitfield - Option 3 Ground Discharge	BM22	MANHOLE	8	1,200	mm	3
04.2	Whitfield - Option 3 Ground Discharge	BM23	PIPEWORK(CIVIL)	730	150	mm	4
04.2	Whitfield - Option 3 Ground Discharge	BM24	PIPEWORK(CIVIL)	420	80	mm	4
04.2	Whitfield - Option 3 Ground Discharge	BM25	SEWAGE PUMP SET	6	175	l/s	2
04.2	Whitfield - Option 3 Ground Discharge	BM26	GATE VALVE	6	350	mm	2
04.2	Whitfield - Option 3 Ground Discharge	BM27	NRV	6	350	mm	2
04.2	Whitfield - Option 3 Ground Discharge	BM28	PIPEWORK(MEICA)	60	350	mm	2
04.2	Whitfield - Option 3 Ground Discharge	BM29					
04.2	Whitfield - Option 3 Ground Discharge	BM30					
04.2	Whitfield - Option 3 Ground Discharge	BM31	INTERNAL TELEPHONE SYSTEM	1	100	m2	incl.
04.2	Whitfield - Option 3 Ground Discharge	BM32					
04.2	Whitfield - Option 3 Ground Discharge	BM33	POWER SUPPLY - New Transformer (outside)	1	400	kVA	2
04.2	Whitfield - Option 3 Ground Discharge	BM34	TELEMETRY (EQSET)	1	1	Nr	2
04.2	Whitfield - Option 3 Ground Discharge	BM35	TELEMETRY AERIAL	1	1	Nr	1
04.2	Whitfield - Option 3 Ground Discharge	BM36	EMERGENCY LIGHTING CIRCUIT	2	120	m2	incl.
04.2	Whitfield - Option 3 Ground Discharge	BM37	LIGHTING CIRCUIT	5	3	Nr	incl.
04.2	Whitfield - Option 3 Ground Discharge	BM38	SITE LIGHTING (EQSET)	12	1	Nr	2
04.2	Whitfield - Option 3 Ground Discharge	BM39	DRAWPIT	13	1	m2	1
04.2	Whitfield - Option 3 Ground Discharge	BM40	HV SWITCHGEAR	1	560	A	1
04.2	Whitfield - Option 3 Ground Discharge	BM41	CABLUNG	1	90	m	3
04.2	Whitfield - Option 3 Ground Discharge	BM42	CABLETRAY	2	10	m	1
04.2	Whitfield - Option 3 Ground Discharge	BM43	CENTRAL HEATING SYSTEM	1	120	m2	incl.
04.2	Whitfield - Option 3 Ground Discharge	BM44	CABLUNG	1	630	m	1
04.2	Whitfield - Option 3 Ground Discharge	BM45	DUCT	3	60	m	3
04.2	Whitfield - Option 3 Ground Discharge	BM46	CABLETRAY	3	5	m	1
04.2	Whitfield - Option 3 Ground Discharge	BM47	CABLUNG	1	630	m	2
04.2	Whitfield - Option 3 Ground Discharge	BM48	CABLUNG	1	420	m	1
04.2	Whitfield - Option 3 Ground Discharge	BM49	DUCT	3	40	m	3
04.2	Whitfield - Option 3 Ground Discharge	BM50	CABLETRAY	1	5	m	1
04.3	Whitfield - Option 3 Ground Discharge						
04.3	Whitfield - Option 3 Ground Discharge	BM01	CABLUNG	1	420	m	2
04.3	Whitfield - Option 3 Ground Discharge	BM02	CABLUNG	1	720	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM03	DUCT	3	50	m	3
04.3	Whitfield - Option 3 Ground Discharge	BM04	CABLETRAY	1	5	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM05	CABLUNG	1	720	m	2
04.3	Whitfield - Option 3 Ground Discharge	BM06	CABLUNG	1	720	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM07	DUCT	3	90	m	3
04.3	Whitfield - Option 3 Ground Discharge	BM08	CABLETRAY	2	5	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM09	CABLUNG	1	720	m	2
04.3	Whitfield - Option 3 Ground Discharge	BM10	CABLUNG	1	780	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM11	DUCT	3	20	m	3
04.3	Whitfield - Option 3 Ground Discharge	BM12	CABLETRAY	1	5	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM13	CABLUNG	1	780	m	2
04.3	Whitfield - Option 3 Ground Discharge	BM14	CABLUNG	1	510	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM15	DUCT	3	160	m	3
04.3	Whitfield - Option 3 Ground Discharge	BM16	CABLUNG	1	90	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM17	DUCT	3	10	m	3
04.3	Whitfield - Option 3 Ground Discharge	BM18	CABLETRAY	1	5	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM19	CABLUNG	1	90	m	2
04.3	Whitfield - Option 3 Ground Discharge	BM20	CABLUNG	1	60	m	2
04.3	Whitfield - Option 3 Ground Discharge	BM21	DUCT	2	10	m	3
04.3	Whitfield - Option 3 Ground Discharge	BM22	CABLUNG	1	90	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM23	DUCT	2	10	m	3
04.3	Whitfield - Option 3 Ground Discharge	BM24	CABLETRAY	1	5	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM25	CABLUNG	1	90	m	2
04.3	Whitfield - Option 3 Ground Discharge	BM26	CABLUNG	5	30	m	1
04.3	Whitfield - Option 3 Ground Discharge	BM27	DUCT	2	15	m	3
04.3	Whitfield - Option 3 Ground Discharge	BM28	CABLETRAY	1	5	m	
04.3	Whitfield - Option 3 Ground Discharge	BM29	CABLUNG	88	20	m	1

04.3	Whitfield - Option 3 Ground Discharge	BM30	CABLETRAY	3	5	m	1	
04.3	Whitfield - Option 3 Ground Discharge	BM31	CABLING	1	360	m	1	
04.3	Whitfield - Option 3 Ground Discharge	BM32	DUCT	2	110	m	2	
04.3	Whitfield - Option 3 Ground Discharge	BM33	CABLING	1	120	m	2	
04.3	Whitfield - Option 3 Ground Discharge	BM34	DISTRIBUTION BOARD	4	108	Nr	1	
04.3	Whitfield - Option 3 Ground Discharge	BM35	CABLING	1	240	m	1	
04.3	Whitfield - Option 3 Ground Discharge	BM36	DUCT	2	105	m	2	
04.3	Whitfield - Option 3 Ground Discharge	BM37	CABLETRAY	1	5	m	1	
04.3	Whitfield - Option 3 Ground Discharge	BM38	CABLING	1	30	m	1	
04.3	Whitfield - Option 3 Ground Discharge	BM39	CABLETRAY	2	5	m	1	
04.3	Whitfield - Option 3 Ground Discharge	BM40	System Integration	1	1	Sum	2	
04.3	Whitfield - Option 3 Ground Discharge	BM41						
04.3	Whitfield - Option 3 Ground Discharge	BM42						
04.3	Whitfield - Option 3 Ground Discharge	BM43	LEVEL MEASUREMENT	5	1	Nr	3	
04.3	Whitfield - Option 3 Ground Discharge	BM44	LEVEL MEASUREMENT	12	1	Nr	3	
04.3	Whitfield - Option 3 Ground Discharge	BM45						
04.3	Whitfield - Option 3 Ground Discharge	BM46						
04.3	Whitfield - Option 3 Ground Discharge	BM47	Compensation	1	2,200	m	1	
04.3	Whitfield - Option 3 Ground Discharge	BM48						
04.3	Whitfield - Option 3 Ground Discharge	BM49	Traffic Management	1	1	Sum		incl.
04.3	Whitfield - Option 3 Ground Discharge	BM50	BUILDING - GENERAL	1	100	m2	3	
04.4	Whitfield - Option 3 Ground Discharge							
04.4	Whitfield - Option 3 Ground Discharge	BM01	Site Drainage	1	18,900	m2	1	
04.4	Whitfield - Option 3 Ground Discharge	BM02	INLET WORKS STRUCTURE	1	458	l/s	2	
04.4	Whitfield - Option 3 Ground Discharge	BM03	F: SCREENING	1	180	l/s	2	
04.4	Whitfield - Option 3 Ground Discharge	BM04	F: SCREENING HANDLING NO BAGGING	1	3	m3/hr	2	
04.4	Whitfield - Option 3 Ground Discharge	BM05	F: GRIT REMOVAL	1	180	l/s	1	
04.4	Whitfield - Option 3 Ground Discharge	BM06	F: OVERFLOW	1	18,144	m3/d	2	
04.4	Whitfield - Option 3 Ground Discharge	BM07						
04.4	Whitfield - Option 3 Ground Discharge	BM08	CHAMBER (volume)	1	2	m3	4	
04.4	Whitfield - Option 3 Ground Discharge	BM09						
04.4	Whitfield - Option 3 Ground Discharge	BM10						
04.4	Whitfield - Option 3 Ground Discharge	BM11						
04.4	Whitfield - Option 3 Ground Discharge	BM12						
04.4	Whitfield - Option 3 Ground Discharge	BM13						
04.4	Whitfield - Option 3 Ground Discharge	BM14	F: PUMPING	1	3	kW	4	
04.4	Whitfield - Option 3 Ground Discharge	BM15	F: STORM WATER STORAGE	1	540	m3	4	
04.4	Whitfield - Option 3 Ground Discharge	BM16	F: PUMPING	1	11	kW	4	
04.4	Whitfield - Option 3 Ground Discharge	BM17	F: SETTLEMENT (NON-WSW)	1	20,000	PE	2	
04.4	Whitfield - Option 3 Ground Discharge	BM18	F: PUMPING	1	8	kW	4	
04.4	Whitfield - Option 3 Ground Discharge	BM19	F: BALANCING	1	180	m3	2	
04.4	Whitfield - Option 3 Ground Discharge	BM20	F: AERATED ACTIVATED SLUDGE	1	3,433	m3/hr	3	
04.4	Whitfield - Option 3 Ground Discharge	BM21	F: SETTLEMENT (NON-WSW)	1	20,000	PE	3	
04.4	Whitfield - Option 3 Ground Discharge	BM22	F: PUMPING	1	35	kW	3	
04.4	Whitfield - Option 3 Ground Discharge	BM23	F: PUMPING	1	80	kW	4	
04.4	Whitfield - Option 3 Ground Discharge	BM24	F: WASHWATER SYSTEM (FUNC)	1	20	m3	1	
04.4	Whitfield - Option 3 Ground Discharge	BM25	F: COMMON CONTROL	1	220	kW	1	
04.4	Whitfield - Option 3 Ground Discharge	BM26	F: METHANOL DOSING	1	3	MLD	1	
04.4	Whitfield - Option 3 Ground Discharge	BM27	F: THICKENING	1	30	m3/d	1	
04.4	Whitfield - Option 3 Ground Discharge	BM28	F: PUMPING	1	5	kW	4	
04.4	Whitfield - Option 3 Ground Discharge	BM29	F: UNTHICKENED SLUDGE STORAGE	1	296	m3	4	
04.4	Whitfield - Option 3 Ground Discharge	BM30	Odour Control facility	1	1	Sum	1	
04.4	Whitfield - Option 3 Ground Discharge	BM31	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Field/Verge	8,000	400	mm	3	
04.4	Whitfield - Option 3 Ground Discharge	BM32						
04.4	Whitfield - Option 3 Ground Discharge	BM33						
04.4	Whitfield - Option 3 Ground Discharge	BM34						
04.4	Whitfield - Option 3 Ground Discharge	BM35						
04.4	Whitfield - Option 3 Ground Discharge	BM36	GENERATOR SET (MEICA)	1	75	Kva	3	
04.4	Whitfield - Option 3 Ground Discharge	BM37	GENERATOR SET (CIVIL)	1	12	m3	4	
04.4	Whitfield - Option 3 Ground Discharge	BM38	POWER SUPPLY - New Transformer (outside)	1	75	kVA	2	
04.4	Whitfield - Option 3 Ground Discharge	BM39	PUNTH/BASE SLAB	1	12	m3	3	
04.4	Whitfield - Option 3 Ground Discharge	BM40	HV RING MAIN UNIT	1	400	Kva	1	
04.4	Whitfield - Option 3 Ground Discharge	BM41	ODOUR COVER(EQSET)	1	113	m2	2	
04.4	Whitfield - Option 3 Ground Discharge	BM42	ODOUR COVER(EQSET)	1	50	m2	2	
04.4	Whitfield - Option 3 Ground Discharge	BM43	ODOUR COVER(EQSET)	1	13	m2	2	

04.4	Whitfield - Option 3 Ground Discharge	BM44	ODOUR COVER(EQSET)	2	227	m2	2	
04.4	Whitfield - Option 3 Ground Discharge	BM45	ODOUR COVER(EQSET)	1	30	m2	2	
04.4	Whitfield - Option 3 Ground Discharge	BM46	ODOUR COVER(EQSET)	1	20	m2	2	
04.4	Whitfield - Option 3 Ground Discharge	BM47	ODOUR COVER(EQSET)	1	74	m2	2	
04.4	Whitfield - Option 3 Ground Discharge	BM48	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	74	300	mm	5	
04.4	Whitfield - Option 3 Ground Discharge	BM49	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	222	300	mm	5	
04.4	Whitfield - Option 3 Ground Discharge	BM50						
04.5	Whitfield - Option 3 Ground Discharge							
04.5	Whitfield - Option 3 Ground Discharge	BM01	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	146	375	mm	5	
04.5	Whitfield - Option 3 Ground Discharge	BM02	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	85	300	mm	5	
04.5	Whitfield - Option 3 Ground Discharge	BM03	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	88	300	mm	5	
04.5	Whitfield - Option 3 Ground Discharge	BM04	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	6	1,350	mm	4	
04.5	Whitfield - Option 3 Ground Discharge	BM05	Gravity Sewer - Manholes Depth <1.5 Type3/4Road	3	1,350	mm	4	
04.5	Whitfield - Option 3 Ground Discharge	BM06	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	223	450	mm	5	
04.5	Whitfield - Option 3 Ground Discharge	BM07	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	1	1,350	mm	4	
04.5	Whitfield - Option 3 Ground Discharge	BM08	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	119	300	mm	5	
04.5	Whitfield - Option 3 Ground Discharge	BM09	Temporary - Over-pumping (6") Over-pumping (6")	10	104	hrs		inc
04.5	Whitfield - Option 3 Ground Discharge	BM10	Temporary - Over-pumping (6") Over-pumping (6")	1	3,000	hrs		inc
04.5	Whitfield - Option 3 Ground Discharge	BM11	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	5,000	350	mm	5	
04.5	Whitfield - Option 3 Ground Discharge	BM12						
04.5	Whitfield - Option 3 Ground Discharge	BM13						
04.5	Whitfield - Option 3 Ground Discharge	BM14						
04.5	Whitfield - Option 3 Ground Discharge	BM15						
04.5	Whitfield - Option 3 Ground Discharge	BM16						
04.5	Whitfield - Option 3 Ground Discharge	BM17						
04.5	Whitfield - Option 3 Ground Discharge	BM18						
04.5	Whitfield - Option 3 Ground Discharge	BM19						
04.5	Whitfield - Option 3 Ground Discharge	BM20						
04.5	Whitfield - Option 3 Ground Discharge	BM21						
04.5	Whitfield - Option 3 Ground Discharge	BM22						
04.5	Whitfield - Option 3 Ground Discharge	BM23						
04.5	Whitfield - Option 3 Ground Discharge	BM24						
04.5	Whitfield - Option 3 Ground Discharge	BM25						
04.5	Whitfield - Option 3 Ground Discharge	BM26						
04.5	Whitfield - Option 3 Ground Discharge	BM27						
04.5	Whitfield - Option 3 Ground Discharge	BM28						
04.5	Whitfield - Option 3 Ground Discharge	BM29						
04.5	Whitfield - Option 3 Ground Discharge	BM30						
04.5	Whitfield - Option 3 Ground Discharge	BM31						
04.5	Whitfield - Option 3 Ground Discharge	BM32						
04.5	Whitfield - Option 3 Ground Discharge	BM33						
04.5	Whitfield - Option 3 Ground Discharge	BM34						
04.5	Whitfield - Option 3 Ground Discharge	BM35						
04.5	Whitfield - Option 3 Ground Discharge	BM36						
04.5	Whitfield - Option 3 Ground Discharge	BM37						
04.5	Whitfield - Option 3 Ground Discharge	BM38						
04.5	Whitfield - Option 3 Ground Discharge	BM39						
04.5	Whitfield - Option 3 Ground Discharge	BM40						
04.5	Whitfield - Option 3 Ground Discharge	BM41						
04.5	Whitfield - Option 3 Ground Discharge	BM42						
04.5	Whitfield - Option 3 Ground Discharge	BM43						
04.5	Whitfield - Option 3 Ground Discharge	BM44						
04.5	Whitfield - Option 3 Ground Discharge	BM45						
04.5	Whitfield - Option 3 Ground Discharge	BM46						
04.5	Whitfield - Option 3 Ground Discharge	BM47						
04.5	Whitfield - Option 3 Ground Discharge	BM48						
04.5	Whitfield - Option 3 Ground Discharge	BM49						
04.5	Whitfield - Option 3 Ground Discharge	BM50						
05.1	Whitfield Option 4 Coastal Discharge							
05.1	Whitfield Option 4 Coastal Discharge	BM01	Modifications to WPS Structure	1	1,200	m3	1	
05.1	Whitfield Option 4 Coastal Discharge	BM02	CHAMBER	1	32	m3	5	
05.1	Whitfield Option 4 Coastal Discharge	BM03	PIPEWORK(CIVIL)	60	375	mm	4	
05.1	Whitfield Option 4 Coastal Discharge	BM04	GATE VALVE	3	375	mm	2	
05.1	Whitfield Option 4 Coastal Discharge	BM05	MOTOR CONTROL CENTRE (M.C.C.)	1	70	kw	1	
05.1	Whitfield Option 4 Coastal Discharge	BM06	KIOSK(EQSET)	1	4	m3	6	

05.1	Whitfield Option 4 Coastal Discharge	BM07	BOUNDARY STRUCTURES - Fencing	1	100	m	5	
05.1	Whitfield Option 4 Coastal Discharge	BM08	FLOW MEASUREMENT	1	375	mm	2	
05.1	Whitfield Option 4 Coastal Discharge	BM09	CHAMBER	1	4	m3	4	
05.1	Whitfield Option 4 Coastal Discharge	BM10	BAUER CONNECTION	1	300	mm	1	
05.1	Whitfield Option 4 Coastal Discharge	BM11	PIPEWORK(CIVIL)	20	100	mm	4	
05.1	Whitfield Option 4 Coastal Discharge	BM12	NUTRIX DOSING SYSTEM	1	250	m3	1	
05.1	Whitfield Option 4 Coastal Discharge	BM13	PUMPSET WASTEWATER	3	35	kw	2	
05.1	Whitfield Option 4 Coastal Discharge	BM14	CHEMICAL SHOWER/EYEBATH	1	1	Nr	2	
05.1	Whitfield Option 4 Coastal Discharge	BM15	SITE LIGHTING (EQSET)	1	1	Nr	2	
05.1	Whitfield Option 4 Coastal Discharge	BM16	CABLING	3	20	m	1	
05.1	Whitfield Option 4 Coastal Discharge	BM17	NRV	3	375	mm	2	
05.1	Whitfield Option 4 Coastal Discharge	BM18	NRV	1	100	mm	2	
05.1	Whitfield Option 4 Coastal Discharge	BM19	CABLING	1	100	m	1	
05.1	Whitfield Option 4 Coastal Discharge	BM20	PLINTH/BASE SLAB	1	1	m3	3	
05.1	Whitfield Option 4 Coastal Discharge	BM21	PLINTH/BASE SLAB	1	3	m3	3	
05.1	Whitfield Option 4 Coastal Discharge	BM22	PIPEWORK(CIVIL)	75	63	mm	3	
05.1	Whitfield Option 4 Coastal Discharge	BM23	ROAD (EQSET)	1	40	m2	5	
05.1	Whitfield Option 4 Coastal Discharge	BM24	PIPEWORK(CIVIL)	20	375	mm	4	
05.1	Whitfield Option 4 Coastal Discharge	BM25	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Field/Verge	2,140	560	mm	3	
05.1	Whitfield Option 4 Coastal Discharge	BM26	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Type3/4Road	10	560	mm	5	
05.1	Whitfield Option 4 Coastal Discharge	BM27	DIRECTIONAL DRILLING - Normal	150	560	mm	3	
05.1	Whitfield Option 4 Coastal Discharge	BM28	Traffic Management	1	1	Sum		incl.
05.1	Whitfield Option 4 Coastal Discharge	BM29						
05.1	Whitfield Option 4 Coastal Discharge	BM30	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge	2	1	Nr	2	
05.1	Whitfield Option 4 Coastal Discharge	BM31						
05.1	Whitfield Option 4 Coastal Discharge	BM32	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Field/Verge	6	1	Nr	1	
05.1	Whitfield Option 4 Coastal Discharge	BM33	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge	4	1	Nr	2	
05.1	Whitfield Option 4 Coastal Discharge	BM34	Easements for pipelines	1	2,140	m	1	
05.1	Whitfield Option 4 Coastal Discharge	BM35	Compensation	1	2,100	m	1	
05.1	Whitfield Option 4 Coastal Discharge	BM36						
05.1	Whitfield Option 4 Coastal Discharge	BM37	Traffic Management	1	1	Sum		incl.
05.1	Whitfield Option 4 Coastal Discharge	BM38	PIPEWORK(CIVIL)	35	90	mm	4	
05.1	Whitfield Option 4 Coastal Discharge	BM39	CABLING	1	850	m	1	
05.1	Whitfield Option 4 Coastal Discharge	BM40	CABLING	1	35	m	1	
05.1	Whitfield Option 4 Coastal Discharge	BM41	INTERNAL TELEPHONE SYSTEM	1	100	m2		incl.
05.1	Whitfield Option 4 Coastal Discharge	BM42	CCTV	1	20	Nr	2	
05.1	Whitfield Option 4 Coastal Discharge	BM43	BOUNDARY STRUCTURES	1	640	m	1	
05.1	Whitfield Option 4 Coastal Discharge	BM44	ACCESS GATES	1	1	Nr	2	
05.1	Whitfield Option 4 Coastal Discharge	BM45	ROAD (EQSET)	1	3,090	m2	2	
05.1	Whitfield Option 4 Coastal Discharge	BM46	SITE CLEARANCE	1	17,500	m2	1	
05.1	Whitfield Option 4 Coastal Discharge	BM47	Land purchase (agricultural)	1	17,500	m2	1	
05.1	Whitfield Option 4 Coastal Discharge	BM48	Land purchase (agricultural)	1	1,200	m2	1	
05.1	Whitfield Option 4 Coastal Discharge	BM49	ROAD (EQSET)	1	1,200	m2	3	
05.1	Whitfield Option 4 Coastal Discharge	BM50	LANDSCAPE/GROUNDS	1	1,000	m2	4	
05.2	Whitfield Option 4 Coastal Discharge							
05.2	Whitfield Option 4 Coastal Discharge	BM01	LANDSCAPE/GROUNDS	1	600	m2	4	
05.2	Whitfield Option 4 Coastal Discharge	BM02	LANDSCAPE/GROUNDS	1	1,000	m2	4	
05.2	Whitfield Option 4 Coastal Discharge	BM03	LANDSCAPE/GROUNDS	1	1,600	m2	5	
05.2	Whitfield Option 4 Coastal Discharge	BM04	LANDSCAPE/GROUNDS	1	1,100	m2	4	
05.2	Whitfield Option 4 Coastal Discharge	BM05	LANDSCAPE/GROUNDS	1	2,500	m2	5	
05.2	Whitfield Option 4 Coastal Discharge	BM06	GENERATOR SET (MEICA)	1	450	Kva	3	
05.2	Whitfield Option 4 Coastal Discharge	BM07	GENERATOR SET (CIVIL)	1	12	m3	3	
05.2	Whitfield Option 4 Coastal Discharge	BM08	POWER SUPPLY - New Transformer (outside)	1	450	kVA	2	
05.2	Whitfield Option 4 Coastal Discharge	BM09						
05.2	Whitfield Option 4 Coastal Discharge	BM10	PLINTH/BASE SLAB	1	12	m3	3	
05.2	Whitfield Option 4 Coastal Discharge	BM11	PIPEWORK(CIVIL)	30	300	mm	5	
05.2	Whitfield Option 4 Coastal Discharge	BM12	PIPEWORK(CIVIL)	40	300	mm	5	
05.2	Whitfield Option 4 Coastal Discharge	BM13	DELIVERY SLAB / AREA	1	900	m2	2	
05.2	Whitfield Option 4 Coastal Discharge	BM14	PIPEWORK(CIVIL)	20	150	mm	4	
05.2	Whitfield Option 4 Coastal Discharge	BM15	PIPEWORK(CIVIL)	30	450	mm	5	
05.2	Whitfield Option 4 Coastal Discharge	BM16	PIPEWORK(CIVIL)	115	200	mm	4	
05.2	Whitfield Option 4 Coastal Discharge	BM17	PIPEWORK(CIVIL)	100	150	mm	4	
05.2	Whitfield Option 4 Coastal Discharge	BM18	GATE VALVE	2	150	mm	2	
05.2	Whitfield Option 4 Coastal Discharge	BM19	DELIVERY SLAB / AREA	1	300	m2	2	
05.2	Whitfield Option 4 Coastal Discharge	BM20	DELIVERY SLAB / AREA	1	650	m2	2	

05.2	Whitfield Option 4 Coastal Discharge	BM21	DELIVERY SLAB / AREA	1	40	m2	2
05.2	Whitfield Option 4 Coastal Discharge	BM22	FLOW CONTROL MECHANISM	1	10	l/s	2
05.2	Whitfield Option 4 Coastal Discharge	BM23	CHAMBER (volume)	1	12	m3	4
05.2	Whitfield Option 4 Coastal Discharge	BM24	WEIR (EQSET)	2	2	m	1
05.2	Whitfield Option 4 Coastal Discharge	BM25	FLOW MEASUREMENT (CERTIFICATION)	1	1	Nr	incl.
05.2	Whitfield Option 4 Coastal Discharge	BM26	ULTRASOUND TRANSDUCER(EQSET)	1	1	Nr	1
05.2	Whitfield Option 4 Coastal Discharge	BM27	NITRATE MEASUREMENT	1	1	Nr	1
05.2	Whitfield Option 4 Coastal Discharge	BM28	AMMONIA MEASUREMENT	1	1	Nr	3
05.2	Whitfield Option 4 Coastal Discharge	BM29	TEMPERATURE MEASUREMENT	1	1	Nr	3
05.2	Whitfield Option 4 Coastal Discharge	BM30	TURBIDITY MEASUREMENT (Waste Water)	1	1	Nr	3
05.2	Whitfield Option 4 Coastal Discharge	BM31	PIPEWORK(CIVIL)	400	80	mm	4
05.2	Whitfield Option 4 Coastal Discharge	BM32	POWER SUPPLY (HV)	1	850	m	1
05.2	Whitfield Option 4 Coastal Discharge	BM33	CABLING	1	35	m	1
05.2	Whitfield Option 4 Coastal Discharge	BM34	INTERNAL TELEPHONE SYSTEM	1	100	m2	incl.
05.2	Whitfield Option 4 Coastal Discharge	BM35	CCTV	1	20	Nr	2
05.2	Whitfield Option 4 Coastal Discharge	BM36	POWER SUPPLY - New Transformer (outside)	1	450	kVA	2
05.2	Whitfield Option 4 Coastal Discharge	BM37	TELEMETRY (EQSET)	1	1	Nr	2
05.2	Whitfield Option 4 Coastal Discharge	BM38	TELEMETRY AERIAL	1	1	Nr	1
05.2	Whitfield Option 4 Coastal Discharge	BM39	EMERGENCY LIGHTING CIRCUIT	2	120	m2	incl.
05.2	Whitfield Option 4 Coastal Discharge	BM40	LIGHTING CIRCUIT	5	3	Nr	incl.
05.2	Whitfield Option 4 Coastal Discharge	BM41	SITE LIGHTING (EQSET)	1	12	Nr	1
05.2	Whitfield Option 4 Coastal Discharge	BM42	DRAWPIT	13	1	m2	2
05.2	Whitfield Option 4 Coastal Discharge	BM43	CABLING	1	90	m	1
05.2	Whitfield Option 4 Coastal Discharge	BM44	CABLETRAY	2	10	m	1
05.2	Whitfield Option 4 Coastal Discharge	BM45	CENTRAL HEATING SYSTEM	1	120	m2	incl.
05.2	Whitfield Option 4 Coastal Discharge	BM46	CABLING	1	630	m	1
05.2	Whitfield Option 4 Coastal Discharge	BM47	DUCT	3	60	m	3
05.2	Whitfield Option 4 Coastal Discharge	BM48	CABLETRAY	3	5	m	1
05.2	Whitfield Option 4 Coastal Discharge	BM49	CABLING	1	630	m	2
05.2	Whitfield Option 4 Coastal Discharge	BM50	CABLING	1	420	m	1
05.3	Whitfield Option 4 Coastal Discharge						
05.3	Whitfield Option 4 Coastal Discharge	BM01	DUCT	3	40	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM02	CABLETRAY	1	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM03	CABLING	1	420	m	2
05.3	Whitfield Option 4 Coastal Discharge	BM04	CABLING	1	720	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM05	DUCT	3	50	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM06	CABLETRAY	1	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM07	CABLING	1	720	m	2
05.3	Whitfield Option 4 Coastal Discharge	BM08	CABLING	1	720	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM09	DUCT	3	90	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM10	CABLETRAY	2	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM11	CABLING	1	720	m	2
05.3	Whitfield Option 4 Coastal Discharge	BM12	CABLING	1	780	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM13	DUCT	3	20	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM14	CABLETRAY	1	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM15	CABLING	1	780	m	2
05.3	Whitfield Option 4 Coastal Discharge	BM16	CABLING	1	510	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM17	DUCT	3	160	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM18	CABLING	90	6	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM19	DUCT	3	10	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM20	CABLETRAY	1	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM21	CABLING	1	90	m	2
05.3	Whitfield Option 4 Coastal Discharge	BM22	CABLING	1	60	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM23	DUCT	2	10	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM24	CABLING	1	90	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM25	DUCT	2	10	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM26	CABLETRAY	1	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM27	CABLING	5	30	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM28	DUCT	2	15	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM29	CABLETRAY	1	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM30	CABLING	96	20	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM31	CABLETRAY	3	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM32	CABLING	1	360	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM33	DUCT	2	110	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM34	DISTRIBUTION BOARD	4	8	Nr	1

05.3	Whitfield Option 4 Coastal Discharge	BM35	CABLING	1	240	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM36	DUCT	2	105	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM37	CABLETRAY	1	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM38	CABLING	30	16	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM39	CABLETRAY	2	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM40	System Integration	1	1	Sum	2
05.3	Whitfield Option 4 Coastal Discharge	BM41					
05.3	Whitfield Option 4 Coastal Discharge	BM42					
05.3	Whitfield Option 4 Coastal Discharge	BM43	LEVEL MEASUREMENT	4	1	Nr	3
05.3	Whitfield Option 4 Coastal Discharge	BM44	LEVEL MEASUREMENT	10	1	Nr	3
05.3	Whitfield Option 4 Coastal Discharge	BM45	CABLING	1	600	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM46	DUCT	3	85	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM47	CABLETRAY	1	5	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM48	CABLING	1	600	m	1
05.3	Whitfield Option 4 Coastal Discharge	BM49	DUCT	3	85	m	3
05.3	Whitfield Option 4 Coastal Discharge	BM50	CABLETRAY	1	5	m	1
05.4	Whitfield Option 4 Coastal Discharge						
05.4	Whitfield Option 4 Coastal Discharge	BM01	CABLING	6	40	m	1
05.4	Whitfield Option 4 Coastal Discharge	BM02	BUILDING - GENERAL	1	100	m2	3
05.4	Whitfield Option 4 Coastal Discharge	BM03	Site Drainage	1	18,900	m2	1
05.4	Whitfield Option 4 Coastal Discharge	BM04	INLET WORKS STRUCTURE	1	458	l/s	2
05.4	Whitfield Option 4 Coastal Discharge	BM05	F: SCREENING	1	180	l/s	2
05.4	Whitfield Option 4 Coastal Discharge	BM06	F: SCREENING HANDLING NO BAGGING	1	3	m3/hr	2
05.4	Whitfield Option 4 Coastal Discharge	BM07	F: GRIT REMOVAL	1	180	l/s	1
05.4	Whitfield Option 4 Coastal Discharge	BM08	F: OVERFLOW	1	18,144	m3/d	2
05.4	Whitfield Option 4 Coastal Discharge	BM09	CHAMBER (volume)	1	2	m3	4
05.4	Whitfield Option 4 Coastal Discharge	BM10	ACTUATED PENSTOCK	3	3	m2	1
05.4	Whitfield Option 4 Coastal Discharge	BM11	F: PUMPING	1	3	kW	4
05.4	Whitfield Option 4 Coastal Discharge	BM12	F: STORM WATER STORAGE	1	540	m3	4
05.4	Whitfield Option 4 Coastal Discharge	BM13	F: PUMPING	1	11	kW	4
05.4	Whitfield Option 4 Coastal Discharge	BM14	F: SETTLEMENT (NON-WSW)	1	20,000	PE	2
05.4	Whitfield Option 4 Coastal Discharge	BM15	F: PUMPING	1	8	kW	4
05.4	Whitfield Option 4 Coastal Discharge	BM16	F: BALANCING	1	180	m3	2
05.4	Whitfield Option 4 Coastal Discharge	BM17	F: AERATED ACTIVATED SLUDGE	1	1,633	m3/hr	3
05.4	Whitfield Option 4 Coastal Discharge	BM18	F: SETTLEMENT (NON-WSW)	1	20,000	PE	3
05.4	Whitfield Option 4 Coastal Discharge	BM19	F: PUMPING	1	35	kW	3
05.4	Whitfield Option 4 Coastal Discharge	BM20	F: PUMPING	1	132	kW	3
05.4	Whitfield Option 4 Coastal Discharge	BM21	F: WASHWATER SYSTEM (FUNC)	1	20	m3	1
05.4	Whitfield Option 4 Coastal Discharge	BM22	F: COMMON CONTROL	1	220	kW	1
05.4	Whitfield Option 4 Coastal Discharge	BM23	F: THICKENING	1	30	m3/d	1
05.4	Whitfield Option 4 Coastal Discharge	BM24	F: PUMPING	1	5	kW	4
05.4	Whitfield Option 4 Coastal Discharge	BM25	F: THICKENED SLUDGE STORAGE	1	296	m3	4
05.4	Whitfield Option 4 Coastal Discharge	BM26	Odour Control facility	1	1	Sum	1
05.4	Whitfield Option 4 Coastal Discharge	BM27	CHAMBER (volume)	1	32	m3	5
05.4	Whitfield Option 4 Coastal Discharge	BM28	PIPEWORK(CIVIL)	60	375	mm	5
05.4	Whitfield Option 4 Coastal Discharge	BM29	GATE VALVE	3	375	mm	2
05.4	Whitfield Option 4 Coastal Discharge	BM30	MOTOR CONTROL CENTRE (M.C.C.)	1	147	kw	1
05.4	Whitfield Option 4 Coastal Discharge	BM31	KIOSK(EQSET)	1	4	m3	6
05.4	Whitfield Option 4 Coastal Discharge	BM32	BOUNDARY STRUCTURES	1	100	m	5
05.4	Whitfield Option 4 Coastal Discharge	BM33	FLOW MEASUREMENT	1	375	mm	2
05.4	Whitfield Option 4 Coastal Discharge	BM34	CHAMBER (volume)	1	4	m3	4
05.4	Whitfield Option 4 Coastal Discharge	BM35	BAUER CONNECTION	1	300	mm	1
05.4	Whitfield Option 4 Coastal Discharge	BM36	PIPEWORK(CIVIL)	20	100	mm	4
05.4	Whitfield Option 4 Coastal Discharge	BM37	NUTRIOX DOSING SYSTEM	1	250	m3	1
05.4	Whitfield Option 4 Coastal Discharge	BM38	PUMPSET WASTEWATER	3	28	kw	2
05.4	Whitfield Option 4 Coastal Discharge	BM39	CHEMICAL SHOWER/EYEBATH	1	1	Nr	2
05.4	Whitfield Option 4 Coastal Discharge	BM40	SITE LIGHTING (EQSET)	1	1	Nr	2
05.4	Whitfield Option 4 Coastal Discharge	BM41	CABLING	1	60	m	1
05.4	Whitfield Option 4 Coastal Discharge	BM42	NRV	3	375	mm	2
05.4	Whitfield Option 4 Coastal Discharge	BM43	NRV	1	100	mm	2
05.4	Whitfield Option 4 Coastal Discharge	BM44	CABLING	1	100	m	1
05.4	Whitfield Option 4 Coastal Discharge	BM45	PLINTH/BASE SLAB	1	1	m3	3
05.4	Whitfield Option 4 Coastal Discharge	BM46	PLINTH/BASE SLAB	1	3	m3	3
05.4	Whitfield Option 4 Coastal Discharge	BM47	PIPEWORK(CIVIL)	75	63	mm	3
05.4	Whitfield Option 4 Coastal Discharge	BM48	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Field/Verge	6,900	560	mm	3

05.4	Whitfield Option 4 Coastal Discharge	BM49					
05.4	Whitfield Option 4 Coastal Discharge	BM50	Traffic Management	1	1	Sum	
05.5	Whitfield Option 4 Coastal Discharge						
05.5	Whitfield Option 4 Coastal Discharge	BM01	DIRECTIONAL DRILLING	100	560	mm	3
05.5	Whitfield Option 4 Coastal Discharge	BM02					
05.5	Whitfield Option 4 Coastal Discharge	BM03					
05.5	Whitfield Option 4 Coastal Discharge	BM04					
05.5	Whitfield Option 4 Coastal Discharge	BM05	MANHOLE	2	3,000	mm	3
05.5	Whitfield Option 4 Coastal Discharge	BM06	Easements for pipelines	1	6,900	m	1
05.5	Whitfield Option 4 Coastal Discharge	BM07	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Type3/4Road	2,400	560	mm	5
05.5	Whitfield Option 4 Coastal Discharge	BM08	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge	8	1	Nr	2
05.5	Whitfield Option 4 Coastal Discharge	BM09	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Type3/4Road	4	1	Nr	2
05.5	Whitfield Option 4 Coastal Discharge	BM10	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Field/Verge	8	1	Nr	1
05.5	Whitfield Option 4 Coastal Discharge	BM11	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Type3/4Road	3	1	Nr	1
05.5	Whitfield Option 4 Coastal Discharge	BM12	Diversions	1	1	Sum	1
05.5	Whitfield Option 4 Coastal Discharge	BM13	Shaft	1	396	m3	1
05.5	Whitfield Option 4 Coastal Discharge	BM14	DIRECTIONAL DRILLING	840	560	mm	3
05.5	Whitfield Option 4 Coastal Discharge	BM15					
05.5	Whitfield Option 4 Coastal Discharge	BM16					
05.5	Whitfield Option 4 Coastal Discharge	BM17	Shaft	1	367	m3	2
05.5	Whitfield Option 4 Coastal Discharge	BM18	Sea Outfall	2,500	560	mm	2
05.5	Whitfield Option 4 Coastal Discharge	BM19	Compensation	1	6,900	m	1
05.5	Whitfield Option 4 Coastal Discharge	BM20					
05.5	Whitfield Option 4 Coastal Discharge	BM21					
05.5	Whitfield Option 4 Coastal Discharge	BM22	EIA Screening and mitigating works	1	1	Sum	1
05.5	Whitfield Option 4 Coastal Discharge	BM23	Working Near to Grade II Lised Buildings	1	1	Sum	1
05.5	Whitfield Option 4 Coastal Discharge	BM24					
05.5	Whitfield Option 4 Coastal Discharge	BM25					
05.5	Whitfield Option 4 Coastal Discharge	BM26					
05.5	Whitfield Option 4 Coastal Discharge	BM27					
05.5	Whitfield Option 4 Coastal Discharge	BM28					
05.5	Whitfield Option 4 Coastal Discharge	BM29					
05.5	Whitfield Option 4 Coastal Discharge	BM30					
05.5	Whitfield Option 4 Coastal Discharge	BM31	HV RING MAIN UNIT	1	500	Kva	1
05.5	Whitfield Option 4 Coastal Discharge	BM32	CABLING	1	120	m	2
05.5	Whitfield Option 4 Coastal Discharge	BM33	CABLING	1	240	m	2
05.5	Whitfield Option 4 Coastal Discharge	BM34	WETWELL	1	80	m3	1
05.5	Whitfield Option 4 Coastal Discharge	BM35	ODOUR COVER(EQSET)	1	113	m2	2
05.5	Whitfield Option 4 Coastal Discharge	BM36	ODOUR COVER(EQSET)	1	50	m2	2
05.5	Whitfield Option 4 Coastal Discharge	BM37	ODOUR COVER(EQSET)	1	13	m2	2
05.5	Whitfield Option 4 Coastal Discharge	BM38	ODOUR COVER(EQSET)	2	227	m2	2
05.5	Whitfield Option 4 Coastal Discharge	BM39	ODOUR COVER(EQSET)	1	30	m2	2
05.5	Whitfield Option 4 Coastal Discharge	BM40	ODOUR COVER(EQSET)	1	20	m2	2
05.5	Whitfield Option 4 Coastal Discharge	BM41	ODOUR COVER(EQSET)	1	74	m2	2
05.5	Whitfield Option 4 Coastal Discharge	BM42	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	74	300	mm	5
05.5	Whitfield Option 4 Coastal Discharge	BM43	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	222	300	mm	5
05.5	Whitfield Option 4 Coastal Discharge	BM44	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	146	375	mm	5
05.5	Whitfield Option 4 Coastal Discharge	BM45	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	85	300	mm	5
05.5	Whitfield Option 4 Coastal Discharge	BM46	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	88	300	mm	5
05.5	Whitfield Option 4 Coastal Discharge	BM47	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	6	1,350	mm	4
05.5	Whitfield Option 4 Coastal Discharge	BM48	Gravity Sewer - Manholes Depth <1.5 Type3/4Road	3	1,350	mm	4
05.5	Whitfield Option 4 Coastal Discharge	BM49	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	223	450	mm	5
05.5	Whitfield Option 4 Coastal Discharge	BM50	CABLING	1	90	m	2
05.6	Whitfield Option 4 Coastal Discharge						
05.6	Whitfield Option 4 Coastal Discharge	BM01	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	1	1,350	mm	4
05.6	Whitfield Option 4 Coastal Discharge	BM02	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	119	300	mm	5
05.6	Whitfield Option 4 Coastal Discharge	BM03	Temporary - Over-pumping (6") Over-pumping (6")	10	104	hrs	
05.6	Whitfield Option 4 Coastal Discharge	BM04	Temporary - Over-pumping (6") Over-pumping (6")	1	3,000	hrs	
05.6	Whitfield Option 4 Coastal Discharge	BM05	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	5,000	350	mm	5
05.6	Whitfield Option 4 Coastal Discharge	BM06					
05.6	Whitfield Option 4 Coastal Discharge	BM07					
05.6	Whitfield Option 4 Coastal Discharge	BM08					
05.6	Whitfield Option 4 Coastal Discharge	BM09					
05.6	Whitfield Option 4 Coastal Discharge	BM10					
05.6	Whitfield Option 4 Coastal Discharge	BM11					

05.6	Whitfield Option 4 Coastal Discharge	BM12				
05.6	Whitfield Option 4 Coastal Discharge	BM13				
05.6	Whitfield Option 4 Coastal Discharge	BM14				
05.6	Whitfield Option 4 Coastal Discharge	BM15				
05.6	Whitfield Option 4 Coastal Discharge	BM16				
05.6	Whitfield Option 4 Coastal Discharge	BM17				
05.6	Whitfield Option 4 Coastal Discharge	BM18				
05.6	Whitfield Option 4 Coastal Discharge	BM19				
05.6	Whitfield Option 4 Coastal Discharge	BM20				
05.6	Whitfield Option 4 Coastal Discharge	BM21				
05.6	Whitfield Option 4 Coastal Discharge	BM22				
05.6	Whitfield Option 4 Coastal Discharge	BM23				
05.6	Whitfield Option 4 Coastal Discharge	BM24				
05.6	Whitfield Option 4 Coastal Discharge	BM25				
05.6	Whitfield Option 4 Coastal Discharge	BM26				
05.6	Whitfield Option 4 Coastal Discharge	BM27				
05.6	Whitfield Option 4 Coastal Discharge	BM28				
05.6	Whitfield Option 4 Coastal Discharge	BM29				
05.6	Whitfield Option 4 Coastal Discharge	BM30				
05.6	Whitfield Option 4 Coastal Discharge	BM31				
05.6	Whitfield Option 4 Coastal Discharge	BM32				
05.6	Whitfield Option 4 Coastal Discharge	BM33				
05.6	Whitfield Option 4 Coastal Discharge	BM34				
05.6	Whitfield Option 4 Coastal Discharge	BM35				
05.6	Whitfield Option 4 Coastal Discharge	BM36				
05.6	Whitfield Option 4 Coastal Discharge	BM37				
05.6	Whitfield Option 4 Coastal Discharge	BM38				
05.6	Whitfield Option 4 Coastal Discharge	BM39				
05.6	Whitfield Option 4 Coastal Discharge	BM40				
05.6	Whitfield Option 4 Coastal Discharge	BM41				
05.6	Whitfield Option 4 Coastal Discharge	BM42				
05.6	Whitfield Option 4 Coastal Discharge	BM43				
05.6	Whitfield Option 4 Coastal Discharge	BM44				
05.6	Whitfield Option 4 Coastal Discharge	BM45				
05.6	Whitfield Option 4 Coastal Discharge	BM46				
05.6	Whitfield Option 4 Coastal Discharge	BM47				
05.6	Whitfield Option 4 Coastal Discharge	BM48				
05.6	Whitfield Option 4 Coastal Discharge	BM49				
05.6	Whitfield Option 4 Coastal Discharge	BM50				
06.1	Whitfield Option 5 River Discharge					
06.1	Whitfield Option 5 River Discharge	BM01	Modifications to WPS Structure	1,200	m3	1
06.1	Whitfield Option 5 River Discharge	BM02	CHAMBER	32	m3	5
06.1	Whitfield Option 5 River Discharge	BM03	PIPEWORK(CIVIL)	375	mm	4
06.1	Whitfield Option 5 River Discharge	BM04	GATE VALVE	375	mm	2
06.1	Whitfield Option 5 River Discharge	BM05				
06.1	Whitfield Option 5 River Discharge	BM06	MOTOR CONTROL CENTRE (M.C.C.)	166	kw	1
06.1	Whitfield Option 5 River Discharge	BM07	KIOSK(EQSET)	4	m3	6
06.1	Whitfield Option 5 River Discharge	BM08	BOUNDARY STRUCTURES - Fencing	100	m	5
06.1	Whitfield Option 5 River Discharge	BM09	FLOW MEASUREMENT	375	mm	2
06.1	Whitfield Option 5 River Discharge	BM10	CHAMBER	4	m3	4
06.1	Whitfield Option 5 River Discharge	BM11	BAUER CONNECTION	300	mm	1
06.1	Whitfield Option 5 River Discharge	BM12	PIPEWORK(CIVIL)	100	mm	4
06.1	Whitfield Option 5 River Discharge	BM13	NUTRIOX DOSING SYSTEM	250	m3	1
06.1	Whitfield Option 5 River Discharge	BM14	PUMPSET WASTEWATER	83	kw	2
06.1	Whitfield Option 5 River Discharge	BM15	CHEMICAL SHOWER/EYEBATH	1	Nr	2
06.1	Whitfield Option 5 River Discharge	BM16	SITE LIGHTING (EQSET)	1	Nr	2
06.1	Whitfield Option 5 River Discharge	BM17	CABLING	20	m	1
06.1	Whitfield Option 5 River Discharge	BM18	NRV	375	mm	2
06.1	Whitfield Option 5 River Discharge	BM19	NRV	100	mm	2
06.1	Whitfield Option 5 River Discharge	BM20	CABLING	100	m	1
06.1	Whitfield Option 5 River Discharge	BM21	PLINTH/BASE SLAB	1	m3	3
06.1	Whitfield Option 5 River Discharge	BM22	PLINTH/BASE SLAB	3	m3	3
06.1	Whitfield Option 5 River Discharge	BM23	PIPEWORK(CIVIL)	63	mm	3
06.1	Whitfield Option 5 River Discharge	BM24	CABLING	40	m	1
06.1	Whitfield Option 5 River Discharge	BM25	ROAD (EQSET)	40	m2	5

06.1	Whitfield Option 5 River Discharge	BM26	PIPEWORK(CIVIL)	20	375	mm	4	
06.1	Whitfield Option 5 River Discharge	BM27	Sewer Rising Main - Open Cut Depth 1.5 - 2.5m Field/Verge	2,600	560	mm	3	
06.1	Whitfield Option 5 River Discharge	BM28	DIRECTIONAL DRILLING - Normal	100	560	mm	3	
06.1	Whitfield Option 5 River Discharge	BM29						
06.1	Whitfield Option 5 River Discharge	BM30						
06.1	Whitfield Option 5 River Discharge	BM31						
06.1	Whitfield Option 5 River Discharge	BM32						
06.1	Whitfield Option 5 River Discharge	BM33	MANHOLE	2	3,000	mm	3	
06.1	Whitfield Option 5 River Discharge	BM34	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge	4	1	Nr	2	
06.1	Whitfield Option 5 River Discharge	BM35	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Field/Verge	5	1	Nr	1	
06.1	Whitfield Option 5 River Discharge	BM36	Easements for pipelines	1	2,600	m	1	
06.1	Whitfield Option 5 River Discharge	BM37						
06.1	Whitfield Option 5 River Discharge	BM38						
06.1	Whitfield Option 5 River Discharge	BM39	Compensation	1	2,600	m	1	
06.1	Whitfield Option 5 River Discharge	BM40						
06.1	Whitfield Option 5 River Discharge	BM41	PIPEWORK(CIVIL)	35	90	mm	4	
06.1	Whitfield Option 5 River Discharge	BM42	CABLING	1	850	m	1	
06.1	Whitfield Option 5 River Discharge	BM43	CABLING	1	35	m	1	
06.1	Whitfield Option 5 River Discharge	BM44	INTERNAL TELEPHONE SYSTEM	1	100	m2		incl.
06.1	Whitfield Option 5 River Discharge	BM45	CCTV	1	20	Nr	2	
06.1	Whitfield Option 5 River Discharge	BM46	BOUNDARY STRUCTURES - Fencing	1	720	m	2	
06.1	Whitfield Option 5 River Discharge	BM47	ACCESS GATES	1	1	Nr	2	
06.1	Whitfield Option 5 River Discharge	BM48	ROAD (EQSET)	1	5,280	m2	2	
06.1	Whitfield Option 5 River Discharge	BM49	SITE CLEARANCE	1	24,300	m2	1	
06.1	Whitfield Option 5 River Discharge	BM50	Land purchase (agricultural)	1	24,300	m2	1	
06.2	Whitfield Option 5 River Discharge							
06.2	Whitfield Option 5 River Discharge	BM01	Land purchase (agricultural)	1	300	m2	1	
06.2	Whitfield Option 5 River Discharge	BM02	ROAD (EQSET)	1	300	m2	5	
06.2	Whitfield Option 5 River Discharge	BM03	LANDSCAPE/GROUNDS	1	1,000	m2	4	
06.2	Whitfield Option 5 River Discharge	BM04	LANDSCAPE/GROUNDS	1	600	m2	4	
06.2	Whitfield Option 5 River Discharge	BM05	LANDSCAPE/GROUNDS	1	1,000	m2	4	
06.2	Whitfield Option 5 River Discharge	BM06	LANDSCAPE/GROUNDS	1	1,600	m2	4	
06.2	Whitfield Option 5 River Discharge	BM07	LANDSCAPE/GROUNDS	1	1,100	m2	4	
06.2	Whitfield Option 5 River Discharge	BM08	LANDSCAPE/GROUNDS	1	2,500	m2	4	
06.2	Whitfield Option 5 River Discharge	BM09	LANDSCAPE/GROUNDS	1	1,350	m2	4	
06.2	Whitfield Option 5 River Discharge	BM10	LANDSCAPE/GROUNDS	1	800	m2	4	
06.2	Whitfield Option 5 River Discharge	BM11	LANDSCAPE/GROUNDS	1	400	m2	4	
06.2	Whitfield Option 5 River Discharge	BM12	LANDSCAPE/GROUNDS	1	1,575	m2	4	
06.2	Whitfield Option 5 River Discharge	BM13	PIPEWORK(CIVIL)	30	300	mm	5	
06.2	Whitfield Option 5 River Discharge	BM14	PIPEWORK(CIVIL)	290	300	mm	5	
06.2	Whitfield Option 5 River Discharge	BM15	MANHOLE	3	1,200	mm	3	
06.2	Whitfield Option 5 River Discharge	BM16	Hardstanding	1	900	m2	1	
06.2	Whitfield Option 5 River Discharge	BM17	PIPEWORK(CIVIL)	20	150	mm	4	
06.2	Whitfield Option 5 River Discharge	BM18	PIPEWORK(CIVIL)	30	450	mm	4	
06.2	Whitfield Option 5 River Discharge	BM19	PIPEWORK(CIVIL)	115	200	mm	4	
06.2	Whitfield Option 5 River Discharge	BM20	PIPEWORK(CIVIL)	100	150	mm	4	
06.2	Whitfield Option 5 River Discharge	BM21	GATE VALVE	2	150	mm	2	
06.2	Whitfield Option 5 River Discharge	BM22	Hardstanding	1	300	m2	1	
06.2	Whitfield Option 5 River Discharge	BM23	Hardstanding	1	350	m2	1	
06.2	Whitfield Option 5 River Discharge	BM24	Hardstanding	1	40	m2	1	
06.2	Whitfield Option 5 River Discharge	BM25	FLOW CONTROL MECHANISM	1	10	l/s	2	
06.2	Whitfield Option 5 River Discharge	BM26	CHAMBER	1	12	m3	5	
06.2	Whitfield Option 5 River Discharge	BM27	WEIR (EQSET)	2	2	m	1	
06.2	Whitfield Option 5 River Discharge	BM28	FLOW MEASUREMENT (CERTIFICATION)	1	1	Nr		incl.
06.2	Whitfield Option 5 River Discharge	BM29	ULTRASOUND TRANSDUCER(EQSET)	1	1	Nr	1	
06.2	Whitfield Option 5 River Discharge	BM30	NITRATE MEASUREMENT	1	1	Nr	1	
06.2	Whitfield Option 5 River Discharge	BM31	AMMONIA MEASUREMENT	1	1	Nr	3	
06.2	Whitfield Option 5 River Discharge	BM32	TEMPERATURE MEASUREMENT	1	1	Nr	3	
06.2	Whitfield Option 5 River Discharge	BM33	TURBIDITY MEASUREMENT (Waste Water)	1	1	Nr	3	
06.2	Whitfield Option 5 River Discharge	BM34	RTC Unit Controller	1	1	Sum	1	
06.2	Whitfield Option 5 River Discharge	BM35	PHOSPHATE MEASUREMENT	2	1	Nr	2	
06.2	Whitfield Option 5 River Discharge	BM36	MANHOLE	1	1,200	mm	3	
06.2	Whitfield Option 5 River Discharge	BM37	PIPEWORK(CIVIL)	420	80	mm	4	
06.2	Whitfield Option 5 River Discharge	BM38	Mecana Filtration	1	2	Nr	1	
06.2	Whitfield Option 5 River Discharge	BM39	PUNTH/BASE SLAB	1	113	m3	2	

06.2	Whitfield Option 5 River Discharge	BM40				
06.2	Whitfield Option 5 River Discharge	BM41	SEWAGE PUMP SET	6	175	l/s 2
06.2	Whitfield Option 5 River Discharge	BM42	GATE VALVE	6	350	mm 2
06.2	Whitfield Option 5 River Discharge	BM43	NRV	6	350	mm 2
06.2	Whitfield Option 5 River Discharge	BM44	PIPEWORK(MEICA)	60	350	mm 2
06.2	Whitfield Option 5 River Discharge	BM45	CABLING	1	1,020	m 1
06.2	Whitfield Option 5 River Discharge	BM46	CABLING	1	35	m 1
06.2	Whitfield Option 5 River Discharge	BM47	INTERNAL TELEPHONE SYSTEM	1	100	m2 in
06.2	Whitfield Option 5 River Discharge	BM48	CCTV	1	20	Nr 2
06.2	Whitfield Option 5 River Discharge	BM49	HV RING MAIN UNIT	1	500	Kva 1
06.2	Whitfield Option 5 River Discharge	BM50	POWER SUPPLY - New Transformer (outside)	1	500	kVA 2
06.3	Whitfield Option 5 River Discharge					
06.3	Whitfield Option 5 River Discharge	BM01	HV SWITCHGEAR	1	700	Amp 1
06.3	Whitfield Option 5 River Discharge	BM02	TELEMETRY (EQSET)	1	1	Nr 2
06.3	Whitfield Option 5 River Discharge	BM03	TELEMETRY AERIAL	1	1	Nr 1
06.3	Whitfield Option 5 River Discharge	BM04	EMERGENCY LIGHTING CIRCUIT	2	120	m2 in
06.3	Whitfield Option 5 River Discharge	BM05	LIGHTING CIRCUIT	5	3	Nr in
06.3	Whitfield Option 5 River Discharge	BM06	SITE LIGHTING (EQSET)	12	1	Nr 2
06.3	Whitfield Option 5 River Discharge	BM07	DRAWPIT	13	1	m2 2
06.3	Whitfield Option 5 River Discharge	BM08	CABLING	1	90	m 1
06.3	Whitfield Option 5 River Discharge	BM09	CABLETRAY	2	10	m 1
06.3	Whitfield Option 5 River Discharge	BM10	CENTRAL HEATING SYSTEM	1	30	m2 in
06.3	Whitfield Option 5 River Discharge	BM11	CABLING	1	630	m 1
06.3	Whitfield Option 5 River Discharge	BM12	DUCT	3	60	m 3
06.3	Whitfield Option 5 River Discharge	BM13	CABLETRAY	3	5	m 1
06.3	Whitfield Option 5 River Discharge	BM14	CABLING	1	630	m 2
06.3	Whitfield Option 5 River Discharge	BM15	CABLING	1	420	m 1
06.3	Whitfield Option 5 River Discharge	BM16	DUCT	3	40	m 3
06.3	Whitfield Option 5 River Discharge	BM17	CABLETRAY	1	5	m 1
06.3	Whitfield Option 5 River Discharge	BM18	CABLING	1	420	m 2
06.3	Whitfield Option 5 River Discharge	BM19	CABLING	1	720	m 1
06.3	Whitfield Option 5 River Discharge	BM20	DUCT	3	50	m 2
06.3	Whitfield Option 5 River Discharge	BM21	CABLETRAY	1	5	m 1
06.3	Whitfield Option 5 River Discharge	BM22	CABLING	720	10	m 1
06.3	Whitfield Option 5 River Discharge	BM23	DUCT	3	90	m 3
06.3	Whitfield Option 5 River Discharge	BM24	CABLETRAY	2	5	m 1
06.3	Whitfield Option 5 River Discharge	BM25	CABLING	1	720	m 2
06.3	Whitfield Option 5 River Discharge	BM26	CABLING	1	780	m 1
06.3	Whitfield Option 5 River Discharge	BM27	DUCT	3	20	m 3
06.3	Whitfield Option 5 River Discharge	BM28	CABLETRAY	1	5	m 1
06.3	Whitfield Option 5 River Discharge	BM29	CABLING	1	780	m 2
06.3	Whitfield Option 5 River Discharge	BM30	CABLING	1	510	m 1
06.3	Whitfield Option 5 River Discharge	BM31	DUCT	3	160	m 2
06.3	Whitfield Option 5 River Discharge	BM32	CABLING	1	90	m 1
06.3	Whitfield Option 5 River Discharge	BM33	DUCT	3	10	m 3
06.3	Whitfield Option 5 River Discharge	BM34	CABLETRAY	1	5	m 1
06.3	Whitfield Option 5 River Discharge	BM35	CABLING	1	90	m 2
06.3	Whitfield Option 5 River Discharge	BM36	CABLING	1	180	m 1
06.3	Whitfield Option 5 River Discharge	BM37	DUCT	2	10	m 3
06.3	Whitfield Option 5 River Discharge	BM38	CABLING	1	90	m 1
06.3	Whitfield Option 5 River Discharge	BM39	DUCT	2	10	m 3
06.3	Whitfield Option 5 River Discharge	BM40	CABLETRAY	1	5	m 1
06.3	Whitfield Option 5 River Discharge	BM41	CABLING	1	90	m 2
06.3	Whitfield Option 5 River Discharge	BM42	CABLING	5	30	m 1
06.3	Whitfield Option 5 River Discharge	BM43	DUCT	2	15	m 3
06.3	Whitfield Option 5 River Discharge	BM44	CABLETRAY	1	5	m 1
06.3	Whitfield Option 5 River Discharge	BM45	CABLING	108	20	m 1
06.3	Whitfield Option 5 River Discharge	BM46	CABLETRAY	3	5	m 1
06.3	Whitfield Option 5 River Discharge	BM47	CABLING	1	360	m 1
06.3	Whitfield Option 5 River Discharge	BM48	DUCT	2	110	m 2
06.3	Whitfield Option 5 River Discharge	BM49	DISTRIBUTION BOARD	4	8	Nr 1
06.3	Whitfield Option 5 River Discharge	BM50	CABLING	1	240	m 1
06.4	Whitfield Option 5 River Discharge					
06.4	Whitfield Option 5 River Discharge	BM01	DUCT	2	105	m 2
06.4	Whitfield Option 5 River Discharge	BM02	CABLETRAY	1	5	m 1

06.4	Whitfield Option 5 River Discharge	BM03	CABLING	2	15	m	1
06.4	Whitfield Option 5 River Discharge	BM04	CABLETRAY	2	5	m	1
06.4	Whitfield Option 5 River Discharge	BM05	System Interigation	1	1	Sum	2
06.4	Whitfield Option 5 River Discharge	BM06					
06.4	Whitfield Option 5 River Discharge	BM07					
06.4	Whitfield Option 5 River Discharge	BM08	LEVEL MEASUREMENT	1	5	Nr	3
06.4	Whitfield Option 5 River Discharge	BM09	LEVEL MEASUREMENT	1	12	Nr	3
06.4	Whitfield Option 5 River Discharge	BM10	CABLING	1	200	m	1
06.4	Whitfield Option 5 River Discharge	BM11	CABLETRAY	2	5	m	1
06.4	Whitfield Option 5 River Discharge	BM12	CABLING	1	180	m	1
06.4	Whitfield Option 5 River Discharge	BM13	CABLETRAY	1	5	m	1
06.4	Whitfield Option 5 River Discharge	BM14	BUILDING - GENERAL	1	100	m2	3
06.4	Whitfield Option 5 River Discharge	BM15	Site Drainage	1	18,900	m2	1
06.4	Whitfield Option 5 River Discharge	BM16	INLET WORKS STRUCTURE	1	458	l/s	2
06.4	Whitfield Option 5 River Discharge	BM17	F: SCREENING	1	180	l/s	2
06.4	Whitfield Option 5 River Discharge	BM18	F: SCREENING HANDLING NO BAGGING	1	3	m3/hr	2
06.4	Whitfield Option 5 River Discharge	BM19	F: GRIT REMOVAL	1	180	l/s	1
06.4	Whitfield Option 5 River Discharge	BM20	F: OVERFLOW	1	18,144	m3/d	2
06.4	Whitfield Option 5 River Discharge	BM21	CHAMBER (volume)	1	2	m3	3
06.4	Whitfield Option 5 River Discharge	BM22	F: PUMPING	1	3	kW	4
06.4	Whitfield Option 5 River Discharge	BM23	F: STORM WATER STORAGE	1	540	m3	3
06.4	Whitfield Option 5 River Discharge	BM24	F: PUMPING	1	11	kW	4
06.4	Whitfield Option 5 River Discharge	BM25	F: SETTLEMENT (NON-WSW)	1	20,000	PE	2
06.4	Whitfield Option 5 River Discharge	BM26	F: PUMPING	1	8	kW	4
06.4	Whitfield Option 5 River Discharge	BM27	F: BALANCING	1	180	m3	1
06.4	Whitfield Option 5 River Discharge	BM28	F: AERATED ACTIVATED SLUDGE	1	3,433	m3/hr	3
06.4	Whitfield Option 5 River Discharge	BM29	F: SETTLEMENT (NON-WSW)	1	20,000	PE	3
06.4	Whitfield Option 5 River Discharge	BM30	F: PUMPING	3	90	kW	3
06.4	Whitfield Option 5 River Discharge	BM31	F: WASHWATER SYSTEM (FUNC)	1	20	m3	1
06.4	Whitfield Option 5 River Discharge	BM32	F: COMMON CONTROL	1	220	kW	1
06.4	Whitfield Option 5 River Discharge	BM33	F: PUMPING	1	132	kW	3
06.4	Whitfield Option 5 River Discharge	BM34	F: FERRIC SULPHATE DOSING	1	3	MLD	4
06.4	Whitfield Option 5 River Discharge	BM35	F: METHANOL DOSING	1	3	MLD	1
06.4	Whitfield Option 5 River Discharge	BM36	F: THICKENING	1	30	m3/d	1
06.4	Whitfield Option 5 River Discharge	BM37	F: PUMPING	1	5	kW	4
06.4	Whitfield Option 5 River Discharge	BM38	F: THICKENED SLUDGE STORAGE	1	296	m3	4
06.4	Whitfield Option 5 River Discharge	BM39	Odour Control facility	1	1	Sum	1
06.4	Whitfield Option 5 River Discharge	BM40					
06.4	Whitfield Option 5 River Discharge	BM41	Easements for pipelines	1	873	m	1
06.4	Whitfield Option 5 River Discharge	BM42					
06.4	Whitfield Option 5 River Discharge	BM43	Traffic Management	1	1	Sum	incl.
06.4	Whitfield Option 5 River Discharge	BM44	Traffic Management	1	1	Sum	incl.
06.4	Whitfield Option 5 River Discharge	BM45	Lane rental	1	1	Sum	1
06.4	Whitfield Option 5 River Discharge	BM46	Working near Grade II listed building 1 item	1	1	Sum	1
06.4	Whitfield Option 5 River Discharge	BM47	Working near to a retaining wall 60 m	1	1	Sum	1
06.4	Whitfield Option 5 River Discharge	BM48	Diversions of existing services	1	1	Sum	1
06.4	Whitfield Option 5 River Discharge	BM49	CHAMBER (volume)	1	32	m3	5
06.4	Whitfield Option 5 River Discharge	BM50	PIPEWORK(CIVIL)	60	375	mm	4
06.5	Whitfield Option 5 River Discharge						
06.5	Whitfield Option 5 River Discharge	BM01	GATE VALVE	3	375	mm	2
06.5	Whitfield Option 5 River Discharge	BM02	MOTOR CONTROL CENTRE (M.C.C.)	1	170	kw	1
06.5	Whitfield Option 5 River Discharge	BM03	KIOSK(EQSET)	1	4	m3	6
06.5	Whitfield Option 5 River Discharge	BM04	BOUNDARY STRUCTURES	1	100	m	5
06.5	Whitfield Option 5 River Discharge	BM05	FLOW MEASUREMENT	1	375	mm	2
06.5	Whitfield Option 5 River Discharge	BM06	CHAMBER (volume)	1	4	m3	4
06.5	Whitfield Option 5 River Discharge	BM07	BAUER CONNECTION	1	300	mm	1
06.5	Whitfield Option 5 River Discharge	BM08	PIPEWORK(CIVIL)	20	100	mm	4
06.5	Whitfield Option 5 River Discharge	BM09	NUTRIOX DOSING SYSTEM	1	250	m3	1
06.5	Whitfield Option 5 River Discharge	BM10	PUMPSET WASTEWATER	3	18	kw	2
06.5	Whitfield Option 5 River Discharge	BM11	CHEMICAL SHOWER/EYEBATH	1	1	Nr	2
06.5	Whitfield Option 5 River Discharge	BM12	SITE LIGHTING (EQSET)	1	1	Nr	2
06.5	Whitfield Option 5 River Discharge	BM13	CABLING	3	20	m	1
06.5	Whitfield Option 5 River Discharge	BM14	NRV	3	375	mm	2
06.5	Whitfield Option 5 River Discharge	BM15	NRV	1	100	mm	2
06.5	Whitfield Option 5 River Discharge	BM16	CABLING	1	100	m	1

06.5	Whitfield Option 5 River Discharge	BM17	PLINTH/BASE SLAB	1	1	m3	3	
06.5	Whitfield Option 5 River Discharge	BM18	PLINTH/BASE SLAB	1	3	m3	3	
06.5	Whitfield Option 5 River Discharge	BM19	WATER MAIN / TRUNK MAIN	75	63	mm	3	
06.5	Whitfield Option 5 River Discharge	BM20	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Field/Verge	873	560	mm	5	
06.5	Whitfield Option 5 River Discharge	BM21	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type2Road	1,800	560	mm	5	
06.5	Whitfield Option 5 River Discharge	BM22	DIRECTIONAL DRILLING	60	560	mm	3	
06.5	Whitfield Option 5 River Discharge	BM23	MANHOLE	2	3,000	mm	3	
06.5	Whitfield Option 5 River Discharge	BM24	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Field/Verge	2	1	Nr	2	
06.5	Whitfield Option 5 River Discharge	BM25	Sewer Rising Main - Air Valve Depth 1.5 - 2.5m Type3/4Road	2	1	Nr	2	
06.5	Whitfield Option 5 River Discharge	BM26	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Field/Verge	2	1	Nr	1	
06.5	Whitfield Option 5 River Discharge	BM27	Sewer Rising Main - Scour Valve Depth 1.5 - 2.5m Type3/4Road	2	1	Nr	1	
06.5	Whitfield Option 5 River Discharge	BM28	Easements for pipelines	1	873	m	1	
06.5	Whitfield Option 5 River Discharge	BM29	OUTFALL	1	1	Nr	1	
06.5	Whitfield Option 5 River Discharge	BM30	NRV	1	560	mm	2	
06.5	Whitfield Option 5 River Discharge	BM31						
06.5	Whitfield Option 5 River Discharge	BM32						
06.5	Whitfield Option 5 River Discharge	BM33						
06.5	Whitfield Option 5 River Discharge	BM34						
06.5	Whitfield Option 5 River Discharge	BM35						
06.5	Whitfield Option 5 River Discharge	BM36						
06.5	Whitfield Option 5 River Discharge	BM37	GENERATOR SET (MEICA)	1	170	Kva	4	
06.5	Whitfield Option 5 River Discharge	BM38	GENERATOR SET (CIVIL)	1	12	m3	3	
06.5	Whitfield Option 5 River Discharge	BM39	POWER SUPPLY - New Transformer (outside)	1	170	kVA	2	
06.5	Whitfield Option 5 River Discharge	BM40	PLINTH/BASE SLAB	1	12	m3	3	
06.5	Whitfield Option 5 River Discharge	BM41	ODOUR COVER(EQSET)	1	113	m2	2	
06.5	Whitfield Option 5 River Discharge	BM42	ODOUR COVER(EQSET)	1	50	m2	2	
06.5	Whitfield Option 5 River Discharge	BM43	ODOUR COVER(EQSET)	1	13	m2	2	
06.5	Whitfield Option 5 River Discharge	BM44	ODOUR COVER(EQSET)	2	227	m2	2	
06.5	Whitfield Option 5 River Discharge	BM45	ODOUR COVER(EQSET)	1	30	m2	2	
06.5	Whitfield Option 5 River Discharge	BM46	ODOUR COVER(EQSET)	1	20	m2	2	
06.5	Whitfield Option 5 River Discharge	BM47	ODOUR COVER(EQSET)	1	74	m2	2	
06.5	Whitfield Option 5 River Discharge	BM48	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	74	300	mm	5	
06.5	Whitfield Option 5 River Discharge	BM49	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	222	300	mm	5	
06.5	Whitfield Option 5 River Discharge	BM50						
06.6	Whitfield Option 5 River Discharge							
06.6	Whitfield Option 5 River Discharge	BM01	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	146	375	mm	5	
06.6	Whitfield Option 5 River Discharge	BM02	Gravity Sewer - Open Cut Depth 2.5 - 3.5m Type3/4Road	85	300	mm	5	
06.6	Whitfield Option 5 River Discharge	BM03	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	88	300	mm	5	
06.6	Whitfield Option 5 River Discharge	BM04	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	6	1,350	mm	4	
06.6	Whitfield Option 5 River Discharge	BM05	Gravity Sewer - Manholes Depth <1.5 Type3/4Road	3	1,350	mm	4	
06.6	Whitfield Option 5 River Discharge	BM06	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	223	450	mm	5	
06.6	Whitfield Option 5 River Discharge	BM07	Gravity Sewer - Manholes Depth 1.5 - 2.5m Type3/4Road	1	1,350	mm	4	
06.6	Whitfield Option 5 River Discharge	BM08	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	119	300	mm	5	
06.6	Whitfield Option 5 River Discharge	BM09	Temporary - Over-pumping (6") Over-pumping (6")	10	104	hrs		incl
06.6	Whitfield Option 5 River Discharge	BM10	Temporary - Over-pumping (6") Over-pumping (6")	1	3,000	hrs		incl
06.6	Whitfield Option 5 River Discharge	BM11	Gravity Sewer - Open Cut Depth 1.5 - 2.5m Type3/4Road	5,000	350	mm	5	
06.6	Whitfield Option 5 River Discharge	BM12						
06.6	Whitfield Option 5 River Discharge	BM13						
06.6	Whitfield Option 5 River Discharge	BM14						
06.6	Whitfield Option 5 River Discharge	BM15						
06.6	Whitfield Option 5 River Discharge	BM16						
06.6	Whitfield Option 5 River Discharge	BM17						
06.6	Whitfield Option 5 River Discharge	BM18						
06.6	Whitfield Option 5 River Discharge	BM19						
06.6	Whitfield Option 5 River Discharge	BM20						
06.6	Whitfield Option 5 River Discharge	BM21						
06.6	Whitfield Option 5 River Discharge	BM22						
06.6	Whitfield Option 5 River Discharge	BM23						
06.6	Whitfield Option 5 River Discharge	BM24						
06.6	Whitfield Option 5 River Discharge	BM25						
06.6	Whitfield Option 5 River Discharge	BM26						
06.6	Whitfield Option 5 River Discharge	BM27						
06.6	Whitfield Option 5 River Discharge	BM28						
06.6	Whitfield Option 5 River Discharge	BM29						
06.6	Whitfield Option 5 River Discharge	BM30						

06.6	Whitfield Option 5 River Discharge	BM31			
06.6	Whitfield Option 5 River Discharge	BM32			
06.6	Whitfield Option 5 River Discharge	BM33			
06.6	Whitfield Option 5 River Discharge	BM34			
06.6	Whitfield Option 5 River Discharge	BM35			
06.6	Whitfield Option 5 River Discharge	BM36			
06.6	Whitfield Option 5 River Discharge	BM37			
06.6	Whitfield Option 5 River Discharge	BM38			
06.6	Whitfield Option 5 River Discharge	BM39			
06.6	Whitfield Option 5 River Discharge	BM40			
06.6	Whitfield Option 5 River Discharge	BM41			
06.6	Whitfield Option 5 River Discharge	BM42			
06.6	Whitfield Option 5 River Discharge	BM43			
06.6	Whitfield Option 5 River Discharge	BM44			
06.6	Whitfield Option 5 River Discharge	BM45			
06.6	Whitfield Option 5 River Discharge	BM46			
06.6	Whitfield Option 5 River Discharge	BM47			
06.6	Whitfield Option 5 River Discharge	BM48			
06.6	Whitfield Option 5 River Discharge	BM49			
06.6	Whitfield Option 5 River Discharge	BM50			
TOTAL			TOTAL	TOTAL	TOTAL

D. Document Register

Southern Water Estimates:

- A8-0074-870523 - Whitfield Option 1 Broomfield Bank.xlsm
- A8-0075-870523 - Whitfield Option 2 Dambridge Wingham.xlsm
- A8-0077-870523 - Whitfield Option 2A Dambridge MBR.xlsm
- A8-0078-870523 - Whitfield Option 3 Ground Discharge.xlsm
- A8-0079-870523 - Whitfield Option 4 Coastal Discharge.xlsm
- A8-0080-870523 - Whitfield Option 5 River Discharge.xlsm
- A8-0074-870523 - Whitfield Option 1 Broomfield Bank R2.xlsm
- A8-0075-870523 - Whitfield Option 2 Dambridge Wingham R2.xlsm
- A8-0077-870523 - Whitfield Option 2A Dambridge MBR R2.xlsm
- A8-0078-870523 - Whitfield Option 3 Ground Discharge R2.xlsm
- A8-0079-870523 - Whitfield Option 4 Coastal Discharge R2.xlsm
- A8-0078-870523 - Whitfield Option 3 Ground Discharge R2.xlsm
- A8-0079-870523 - Whitfield Option 4 Coastal Discharge R2.xlsm
- A8-0080-870523 - Whitfield Option 5 River Discharge R2.xlsm
- Whitfield R3 Summaries

E. High-Level Risk & EU Matrix

	MATURITY LEVEL OF PROJECT DEFINITION DELIVERABLES (Expressed as % of complete definition)	END USAGE Typical purpose of estimate	METHODOLOGY Typical estimating method	DESIGN DEFINITION		GROUND CONDITIONS		OTHER SERVICES		DELAYS		WORKING ACCESS / CONDITIONS		ENVIRONMENTAL CONSTRAINTS		POWER UPGRADE		PLANNING PERMISSION		LAND ACQUISITION / COMPENSATION		SYSTEMS INTEGRATION	
				Level of defined scope, drawing etc provided		Unknown ground conditions, contamination etc		Unknown services and unexpected diversions		Working when trying to maintain flows, temporary generators etc			0		0		0		0		Asset, PLC, MCC, and/or SCADA integration / Interface issues		
Class 5	0% - 2%	Concept Screening	Cost/length factors, parametric models, judgment, or analogy	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%		
Class 5				Low	10.0%	Low	4.3%	Low	0.7%	Low	1.0%	Low	0.7%	Low	0.7%	Low	0.7%	Low	0.7%	Low	0.7%		
Class 5				Medium	15.0%	Medium	6.5%	Medium	1.0%	Medium	1.5%	Medium	1.0%	Medium	1.0%	Medium	1.0%	Medium	1.0%	Medium	1.0%		
Class 5				High	22.5%	High	9.8%	High	1.5%	High	2.3%	High	1.5%	High	1.5%	High	1.5%	High	1.5%	High	1.5%		
Class 4	1% - 15%	Study or feasibility	Cost/length, factored or parametric models	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%		
Class 4				Low	6.7%	Low	4.3%	Low	0.7%	Low	1.0%	Low	0.7%	Low	0.7%	Low	0.7%	Low	0.7%	Low	0.7%		
Class 4				Medium	10.0%	Medium	6.5%	Medium	1.0%	Medium	1.5%	Medium	1.0%	Medium	1.0%	Medium	1.0%	Medium	1.0%	Medium	1.0%		
Class 4				High	15.0%	High	9.8%	High	1.5%	High	2.3%	High	1.5%	High	1.5%	High	1.5%	High	1.5%	High	1.5%		
Class 3	10% - 40%	Budget authorisation or control	Semi-detailed unit costs with assembly level line items	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%		
Class 3				Low	5.0%	Low	3.3%	Low	0.7%	Low	1.0%	Low	0.7%	Low	0.3%	Low	0.3%	Low	0.7%	Low	0.7%		
Class 3				Medium	7.5%	Medium	5.0%	Medium	1.0%	Medium	1.5%	Medium	1.0%	Medium	0.5%	Medium	0.5%	Medium	1.0%	Medium	1.0%		
Class 3				High	11.3%	High	7.5%	High	1.5%	High	2.3%	High	1.5%	High	1.5%	High	0.8%	High	0.8%	High	1.5%		
Class 2	30% - 75%	Control or bid/tender	Detailed unit cost with forced detailed take-off	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%		
Class 2				Low	3.3%	Low	3.3%	Low	0.7%	Low	1.0%	Low	0.7%	Low	0.3%	Low	0.0%	Low	0.0%	Low	0.7%		
Class 2				Medium	5.0%	Medium	5.0%	Medium	1.0%	Medium	1.5%	Medium	1.0%	Medium	0.5%	Medium	0.0%	Medium	0.0%	Medium	1.0%		
Class 2				High	7.5%	High	7.5%	High	1.5%	High	2.3%	High	1.5%	High	0.8%	High	0.0%	High	0.0%	High	1.5%		
Class 1	65% - 100%	Check estimate or bid/tender	Detailed unit cost with detailed take-off	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%	N/A	0.0%		
Class 1				Low	0.0%	Low	3.3%	Low	0.7%	Low	1.0%	Low	0.7%	Low	0.3%	Low	0.0%	Low	0.0%	Low	0.7%		
Class 1				Medium	0.0%	Medium	5.0%	Medium	1.0%	Medium	1.5%	Medium	1.0%	Medium	0.5%	Medium	0.0%	Medium	0.0%	Medium	1.0%		
Class 1				High	0.0%	High	7.5%	High	1.5%	High	2.3%	High	1.5%	High	0.8%	High	0.0%	High	0.0%	High	1.5%		

F. Risk Costs & Percentages

Risk & Estimating Uncertainty Matrix
Whitfield
Southern Water

Class 3

[illegible]

