

This document is executed as a deed and is delivered and takes effect at  
the date written at the beginning of it



<b>Framework:</b>	<b>Collaborative Delivery Framework</b>
<b>Supplier:</b>	<b>VolkerStevin Infrastructure Limited</b>
<b>Company Number:</b>	<b>00777543</b>
<b>Geographical Area:</b>	<b>South East</b>
<b>Contract Name:</b>	<b>Arundel Tarrant Wharf Tidal Defences ECC</b>
<b>Project Number:</b>	<b>ENV0000692C</b>
<b>Contract Type:</b>	<b>Engineering Construction Contract</b>
<b>Option:</b>	<b>Option C</b>
<b>Contract Number:</b>	<b>C16453</b>
<b>Stage:</b>	<b>Construction</b>

Revision	Status	Originator	Reviewer	Date

**ENGINEERING AND CONSTRUCTION CONTRACT under the Collaborative Delivery Framework**  
**CONTRACT DATA**

**Project Name** Arundel Tarrant Wharf Tidal Defences ECC  
**Project Number** ENV000692C

- This contract is made on 19 May 2023 between the *Client* and the *Contractor*
- This contract is made pursuant to the Framework Agreement (the "Agreement") dated 01 day of April 2019 between the *Client* and the *Contractor* in relation to the Collaborative Delivery Framework. The entire agreement and the following Schedules are incorporated into this Contract by reference
  - Schedules 1 to 23 inclusive of the Framework schedules are relied upon within this contract.
  - The following documents are incorporated into this contract by reference  
LIT 13260 - CDT NEC4 ECC Scope Template\_ATW\_v009

**Part One - Data provided by the *Client***  
**Statements given in all Contracts**

**1 General** The *conditions of contract* are the core clauses and the clauses for the following main Option, the Option for resolving and avoiding disputes and the secondary Options of the NEC4 Engineering and Construction Contract June 2017.

Main Option	Option C	Option for resolving and avoiding disputes	W2
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Secondary Options

X2: Changes in the law

X7: Delay damages

X9: Transfer of rights

X10: Information modelling

X11: Termination by the *Client*

X15: *Contractor's* design

X18 Limitation of Liability

X20: Key Performance Indicators

Y(UK)1: Project Bank Account

Y(UK)2: The Housing Grants, Construction and Regeneration Act 1996

Y(UK)3: The Contracts (Rights of Third Parties) Act 1999

Z: *Additional conditions of contract*

The *works* are

Construction of flood defences at Arundel Tarrant Wharf comprising a sheet piled wall with capping beam and ground anchors.

The <i>Client</i> is	Environment Agency
Address for communications	Horizon House Deanery Road Bristol BS1 5AH
Address for electronic communications	
The <i>Project Manager</i> is	
Address for communications	Environment Agency Guildbourne House Chatsworth Road Worthing West Sussex BN11 1LD
Address for electronic communications	

The *Supervisor* is [REDACTED]

Address for communications JBA Consulting  
Oakfield House  
35 Perrymount Road  
Haywards Heath  
RH16 3BW

Address for electronic communications [REDACTED]

The Scope is in  
LIT 13260 - CDT NEC4 ECC Scope Template\_ATW\_v009

The Site Information is in  
Arundel TW\_Site Information Pt1.zip  
Arundel TW\_Site Information Pt2.zip

The *boundaries of the site* are  
Hazard Plan - Combined V.4 (1)

The *language of the contract* is English

The *law of the contract* is  
*the law of England and Wales, subject to the jurisdiction of the courts of England and Wales*

The period for reply is 2 weeks

The following matters will be included in the Early Warning Register

Early warning meetings are to be held at intervals no longer than 2 weeks

## 2 The Contractor's main responsibilities

The <i>key dates</i> and <i>conditions</i> to be met are <i>condition</i> to be met	<i>key date</i>
'none set'	'none set'
'none set'	'none set'
'none set'	'none set'
The <i>Contractor</i> prepares forecasts of the total Defined Cost for the whole of the <i>works</i> at intervals no longer than	4 weeks

## 3 Time

The <i>starting date</i> is	19 May 2023
The <i>access dates</i> are part of the Site	date
The Site	31 July 2023
ASite	26 May 2023
FastDraft	26 May 2023
The <i>Contractor</i> submits revised programmes at intervals no longer than	4 weeks
The <i>Completion Date</i> for the whole of the <i>works</i> is	23 June 2024
The <i>Client</i> is not willing to take over the <i>works</i> before the Completion Date	
The period after the Contract Date within which the <i>Contractor</i> is to submit a first programme for acceptance is	4 weeks

4 Quality management

The period after the Contract Date within which the Contractor is to submit a quality plan is	4 weeks
The period between Completion of the whole of the works and the defects date is	52 weeks

The defect correction period is	2 weeks	except that
• The defect correction period for	Safety Issue for the public	is 24 Hours
• The defect correction period for		is

5 Payment

The <i>currency of the contract</i> is the £ sterling			
The <i>assessment interval</i> is		Monthly	
The <i>Client</i> set total of the Prices is		£7,047,416.00	
The <i>interest rate</i> is	2.00%	per annum (not less than 2) above the	
Base	rate of the	Bank of England	
The <i>Contractor's share percentages</i> and the <i>share ranges</i> are			
	<i>share range</i>		<i>Contractor's share percentage</i>
less than		80 %	0 %
from	80 %	to	120 %
greater than		120 %	as set out in Schedule 17
			as set out in Schedule 17

6 Compensation events

The place where weather is to be recorded is	Arundel Lat: 50 8547 Long:-0.5536
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The <i>weather measurements</i> to be recorder for each calendar month are	
<ul style="list-style-type: none"><li>• the cumulative rainfall (mm)</li><li>• the number of days with rainfall more than 5mm</li><li>• the number of days with minimum air temperature less than 0 degrees Celsius</li></ul>	
• the number of days with snow lying at	09:00 hours GMT

and these measurements:

- 1.
- 2.
- 3.
- 4.
- 5.

The weather measurements are supplied by	The Met Office
The weather data are the records of past weather measurement for each calendar month	
which were recorded at	Arundel Lat: 50 8547 Long:-0.5536
and which are available from	The Met Office

Assumed values for the ten year weather return weather data for each weather measurement for each calendar month are

Jan	Jul
Feb	Aug
Mar	Sep
Apr	Oct
May	Nov
Jun	Dec

These are additional compensation events

1. Wind speed forecast shall be checked each day and works scheduled accordingly. The wind speed shall be measured at site weather station, hand held anemometer at face of the works or on the crane boom, for gusting windspeeds greater than 14m/s that prevent lifting operations.
2. Any requirement to retain marine or land-based equipment and materials on site outside that required to deliver the works in preparation or readiness for an incident response'
3. Any consequence of the existing wall within the site collapsing prior to or following the Access Date – including, but not limited to, delays, clearance of debris from pile line or behind the wall, re-sequencing of works
4. Any damage, excluding that as a consequence of Contractor negligence, to structures or consequence thereof (including cessation, repair and so on) whilst working within MTR's and the Scope in relation to Noise and Vibration of the works.
5. Delays as a result of stopping piling where decisions are required in relation to the piling protocol (ENV0003857C-JBA-00- 00-SP-C-0022-Piling\_Specification\_Issue \_P03 pdf)

6. The ground anchors meet obstruction while the Contractor is working within set tolerances and setting out as per the scope.
7. Inability to tension anchors due to excessive pile deflection and subsequent stiffening required
8. The known obstructions as referenced in the bathymetric survey (Bathy survey 2958-HS01-D01-01.pdf) in pile line that prevent progression of the piles
9. If the working hours are extended to allow more efficient working

## 8 Liabilities and insurance

These are additional *Client's* liabilities

- 1 'not used'
- 2 'not used'
- 3 'not used'

The minimum amount of cover for insurance against loss of or damage to property (except the *works*, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the *Contractor*) arising from or in connection with the *Contractor* Providing the Works for any one event is

£15,000,000

The minimum amount of cover for insurance against death of or bodily injury to employees of the *Contractor* arising out of and in the course of their employment in connection with the contract for any one event is

not less than the amount required by law

The insurance against loss of or damage to the *works*, Plant and Materials is to include cover for Plant and Materials provided by the *Client* for an amount of

## Resolving and avoiding disputes

The *tribunal* is litigation in the courts

The *Senior Representatives* of the *Client* are

Address for communications

Address for electronic communications

Name

Address for communications

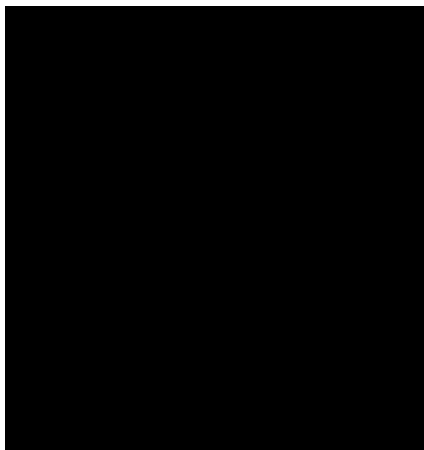
Address for electronic communications

The *Adjudicator* is

Address for communications

Address for electronic communications

The *Adjudicator nominating body* is



'to be confirmed'

'to be confirmed'

['to be confirmed'](#)

The Institution of Civil Engineers

## Z Clauses

### Z1 Correctness of Site Information and other documents

Z1.1 Site Information about the ground, subsoil, ducts, cables, pipes and structures is provided in good faith by the *Client*, but is not warranted correct. Clause 60.3 does not apply to such Site Information and the *Contractor* is responsible for checking the correctness of any such Site Information they rely on for the purpose of pricing for or providing the *works*.

Z1.2 Information regarding construction methods or processes referred to in pre contract health and safety plans are provided in good faith by the *Client* but are not warranted correct (except for the purpose of promoting high standards of health and safety) and the *Contractor* is responsible for checking the correctness of any such information they rely on for the purpose of pricing for, or providing the *works*.

### Z 2B: Water levels: Contractor's risk

Clause 60.1 (12) second bullet point is amended to: "are not weather conditions or floods and"

### Z3 Prevention: No change to prices

Delete first sentence of clause 62.2 and replace with:

"Quotations for compensation events except for the compensation event described in 60.1(19) comprise proposed changes to the Prices and any delay to the Completion Date and Key Dates assessed by the *Contractor*. Quotations for the compensation event described in 60.1(19) comprise any delay to the Completion Date and Key Dates assessed by the *Contractor*.

Delete 'The' At start of clause 63.1 and replace with:

"For the compensation event described in 60.1(19) the Prices are not changed. For other compensation events the..."

### Z 4 The Schedule of Cost Components

The Schedule of Cost Components is as detailed in the Framework Schedule 9.

### Z 6 Payment for

Delete existing clause 11.2 (31) and replace with:

"11 2 (31) The Price for Work Done to Date is the total Defined Cost which the *Project Manager* forecasts will have been paid by the *Contractor* before the next assessment date plus the Fee. In all instances and circumstances the Price for Work Done to Date shall not exceed the forecast for the same as provided under clause 20.4."

### Z7 Contractor's share

After c154 2 and before c154.3, insert the following additional clause:

54.2A If, prior to Completion of the whole of the works, the Price for Work Done to Date exceeds 111% of the total of the Prices, the amount in excess of 111% of the total of the Prices is retained from the Contractor.

### Z10 Payments to subcontractors, sub consultants and

Subcontractors

The *Contractor* will use the NEC4 contract on all subcontracts for works unless another alternative and appropriate form is proposed and agreed in accordance with clause 26.3. Payment to subcontractors will be 28 days from the assessment date.

If the *Contractor* does not achieve payments within these timescales then the Client reserves the right to delay payments to the Contractor in respect of subcontracted work, services or goods.

Failure to pay subcontractors and suppliers within contracted times scales will also adversely affect the *Contractor's* opportunities to work on framework contracts.

### Z11Y(UK) 3 The Contracts (Rights of Third Parties) Act

Z11.1 The *Contractor* warrants all design complies with the contract whether undertaken by the *Contractor* or by sub-contractors.

Z11.2 All contracts for design employed by the *Contractor* must include:

• Y(UK)3 The Contracts Rights of Third Parties) Act 1999

• A requirement for the *Contractor's* sub-contractor to hold Professional indemnity insurance to the same level as the cover specified for the *Contractor* in this Call-off contract

• A clause to give the *Client* (the Environment Agency) the right to enforce the provisions of the Contracts (Right of Third Parties) Act 1999,

• A clause to ensure that neither the *Contractor* nor their sub-contractor can alter the provisions of their sub-contract without the consent of the *Client*

• A clause to ensure that the *Client's* rights against the sub-contractor under this agreement shall be subject to the same conditions, limitations and exclusions as apply to the *Contractor's* rights against the design consultant under this agreement

• A clause to state that except as provided in clause Z11.1, the agreement does not create any right enforceable by any person who is not a party to it (Other Party) under the Contracts (Rights of Third Parties) Act 1999, but the clause does not affect any right or remedy of any other party which exists or is available apart from that Act.

### Z16 Disallowed Costs

Add the following bullets to clause 11 2 (26) Disallowed costs

- was incurred due to a breach of safety requirements, or due to additional work to comply with safety requirements.
- was incurred as a result of the client issuing a Yellow or Red Card to prepare a Performance Improvement Plan.
- was incurred as a result of rectifying a non-compliance with the Framework Agreement and/or any call off contracts following an audit.

### Z19 Linked contracts

Delays and additional cost on this contract resulting from the *Contractor's* fault or error on a previous contract on this project or programme will be a Disallowable cost under this contract and not be a Compensation event under this contract.

### Z21 Requirement for Invoice

Add the following sentence to the end of clause 51.1:

The Party to which payment is due submits an invoice to the other Party for the amount to be paid within one week of the *Project Manager's* certificate.

Delete existing clause 51.2:

51.2 Each certified payment is made by the later of

- one week after the paying Party receives an invoice from the other Party and
- three weeks after the assessment date, or, if a different period is stated in the Contract Data, within the period stated.

If a certified payment is late, or if a payment is late because the *Project Manager* has not issued a certificate which should be issued, interest is paid on the late payment. Interest is assessed from the date by which the late payment should have been made until the date when the late payment is made, and is included in the first assessment after the late payment is made

### Z22 Resolving Disputes

Delete W2.1

### Z23 Risks and insurance

Replace clause 84.1 with the following

Insurance certificates are to be submitted to the Client on an annual basis.

### Z31 ECC – Price Adjustment for Inflation

The *Client* recognises the ongoing pricing uncertainty with regards to inflation. The *Client* will mitigate this uncertainty through this clause.

Z31.1 Defined terms:

- a) The index is Office for National Statistics (ONS) CPI (UK, 2015=100).
- b) The Base Date Index (B) is the latest available index published by ONS prior to the Contract Date.
- c) The Latest Index (L) is the latest available index published by ONS before the date of assessment of an amount due.
- d) The Price Adjustment Factor (PAF) at each date of assessment of an amount due is  $0.9((L-B)/B)$ .

Z31.2 Application rules.

The provisions of this clause [Z31] shall apply provided that:

- a) The Price for Work Done to Date is less than or equal to the total of the Prices and
- b) Inflation remains positive i.e. L is greater than B.

Z31.3 Price Adjustment Factor.

If an index is changed after it has been used in calculating a PAF, the calculation is not changed. The PAF calculated at the last assessment date before the Completion Date for the whole of the *works* is used for calculating an amount for price adjustment after that date.

Z31.4 Price adjustment Options A and B.  
**NOT USED**

Z31.5 Price adjustment Options C and D.

Each time the amount due is assessed, an amount for price adjustment is added to the total of the Prices which is the change in the Price for Work Done to Date since the last assessment of the amount due multiplied by (PAF/(1+PAF)).

Z31.6 Compensation events.  
**NOT USED**

**Z111 ECC - Fee adjustment for non compliance with Scope**  
Delete existing 11.2 (10) and replace with the following clause

The Fee is the amount calculated by applying the *fee percentage* to the Defined Cost excluding the cost of Sub-contractors that have not complied with procurement by best value processes as defined in the Scope. 80% of the *fee percentage* is applied to the amount of the Defined Cost for Sub-contractors that have not complied with procurement by best value processes as defined in the Scope.

**Z120 ECC – Carbon reduction**

Ref. (Clause No.)	Clause words
11.2 Definitions	Add as Clause 11 2(36) (36) The Performance Table states the targets the <i>Contractor</i> is to achieve in Providing the Works and sets out the adjustment to payment if a measured performance is higher, the same or lower than its target. The Performance Table is the <i>performance table</i> unless later changed in accordance with the contract.
15.1 Early Warnings	In Clause 15.1 add as a new bullet between the second and third bullet: "• result in a target in the Performance Table not being met,"
Performance Measurements	
57	Add as Clause 57:
57.1	From the <i>starting date</i> until the Completion Date, the <i>Contractor</i> reports to the <i>Project Manager</i> its performance against the targets in the Performance Table. Reports are provided at the intervals stated in the Performance Table.
57.2	If the <i>Contractor's</i> performance against a target in the Performance Table is not achieving or is forecast not to achieve the performance target stated, it submits to the <i>Project Manager</i> for acceptance its proposals for improving performance.  A reason for not accepting the proposals is that they will not provide the improvement in performance needed to achieve the target in the Performance Table.
57.3	At the dates stated in the Performance Table, • if the relevant performance does not meet the target stated in the Performance Table, the <i>Contractor</i> pays the amount stated in the Performance Table,  • if the relevant performance exceeds or meets the target stated in the Performance Table, the <i>Contractor</i> is paid the amount stated in the Performance Table.
57.4	Information in the Performance Table is not Scope.
X18	X18 5 add as a new bullet after the fourth bullet: • low performance damages if the Performance Table applies

The *performance table* is

Ref	Subject/ issue to be addressed	Target	Units	Measurement rules	Reporting frequency	If performance does not meet the target stated in the Performance Table, the <i>Contractor</i> pays the amount stated	Limit on sum to be paid by the <i>Contractor</i> (if any)	If performance exceeds or meets the target stated in the Performance Table, the <i>Contractor</i> is paid the amount stated	Limit on sum to be paid by the <i>Contractor</i> (if any)
					(weekly / monthly / at completion)	(Sum or rate)		(Sum or rate)	
1	Carbon	Verified Carbon Budget	tCO <sub>2</sub> e	FCRM Appraisal Guidance verified in accordance with EN15978	Monthly	Not used	5% of Price	Not used	5% of Price
	TOTAL Limit on SUM TO BE PAID								

## Secondary Options

### OPTION X2: Changes in the law

The *law of the project* is the law of England and Wales, subject to the jurisdiction of the courts of England and Wales

### OPTION X7: Delay damages

**X7 only** Delay damages for Completion of the whole of the *works* are £649 30 per day

### OPTION X10: Information modelling

The period after the Contract Date within which the *Contractor* is to submit a first Information Execution Plan for acceptance is 2 weeks

The minimum amount of insurance cover for claims made against the *Contractor* arising out of its failure to use skill and care normally used by professional providing information similar to the Project Information is, in respect of each claim £5,000,000

The period following Completion of the whole of the *works* or earlier termination for which the *Contractor* maintains insurance for claims made against it arising out of its failure to use the skill and care is 12 years

### OPTION X15: The *Contractor's* design

The *period for retention* following Completion of the whole of the *works* or earlier termination is 12

The minimum amount of insurance cover for claims made against the *Contractor* arising out of its failure to use skill and care normally used by professionals designing works similar to the *works* is, in respect of each claim £5,000,000.00

The period following Completion of the whole of the *works* or earlier termination for which the *Contractor* maintains insurance for claims made against it arising out of its failure to use the skill and care is 12

### OPTION X18: Limitation of liability

The *Contractor's* liability to the *Client* for indirect or consequential loss is limited to £5,000,000

For any one event, the *Contractor's* liability to the *Client* for loss or damage to the *Client's* property is limited to

£5,000,000  
The *Contractor's* liability for Defects due to its design which are not listed on the Defects Certificate is limited to £5,000,000

The *Contractor's* total liability to the *Client* for all matters arising under or in connection with the contract, other than excluded matters, is limited to

£5,000,000  
The *end of liability date* is 12 years after the Completion of the whole of the *works*



**OPTION X20: Key Performance Indicators (not used with Option X12)**

The *incentive schedule* for Key Performance Indicators is in Schedule 17.

A report of performance against each Key Performance Indicator is provided at intervals of 3 months.

**Y(UK)1:Project Bank Account**

The Contractor is to pay any bank charges made and to be paid any interest paid by the *project bank*

**Y(UK2): The Housing Grants, Construction and Regeneration Act 1996**

The period for payment is 14 days after the date on which payment becomes due

**Y(UK3): The Contracts ( Rights of Third Parties Act) 1999**

term beneficiary

term beneficiary

The provisions of  
Y(UK)1

Part Two - Data provided by the Contractor

Completion of the data in full, according to the Options chosen, is essential to create a complete contract.

1 General

The Contractor is

Name VolkerStevin Infrastructure Limited

Address for communications Hertford Road  
Hoddesdon  
Hertfordshire  
EN11 9BX

Address for electronic communications

[Redacted]

The fee percentage is

Option C

8.90%

The working areas are The Site and all other areas necessary to deliver the Works

The key persons are

Name (1)  
Job  
Responsibilities  
Qualifications  
Experience

The key persons are

Name (2)  
Job  
Responsibilities  
Qualifications  
Experience

The key persons are

Name (3)  
Job  
Responsibilities  
Qualifications  
Experience

The key persons are

Name (4)  
Job  
Responsibilities  
Qualifications  
Experience

[Redacted]

The following matters will be included in the Early Warning Register

## 2 The Contractor's main responsibilities

The Scope provided by the *Contractor* for its design is in

NA

## 3 Time

The programme identified in the Contract Data is

TBC

## 5 Payment

The *activity schedule* is

## Resolving and avoiding disputes

The *Senior Representatives* of the *Contractor* are

Name (1) [REDACTED]

Address for communications

[REDACTED]

Address for electronic communications

[REDACTED]

Name (2) [REDACTED]

Address for communications

[REDACTED]

Address for electronic communications

[REDACTED]

## X10: Information Modelling

The *information execution plan* identified in the Contract Data is

## Y(UK)1: Project Bank Account

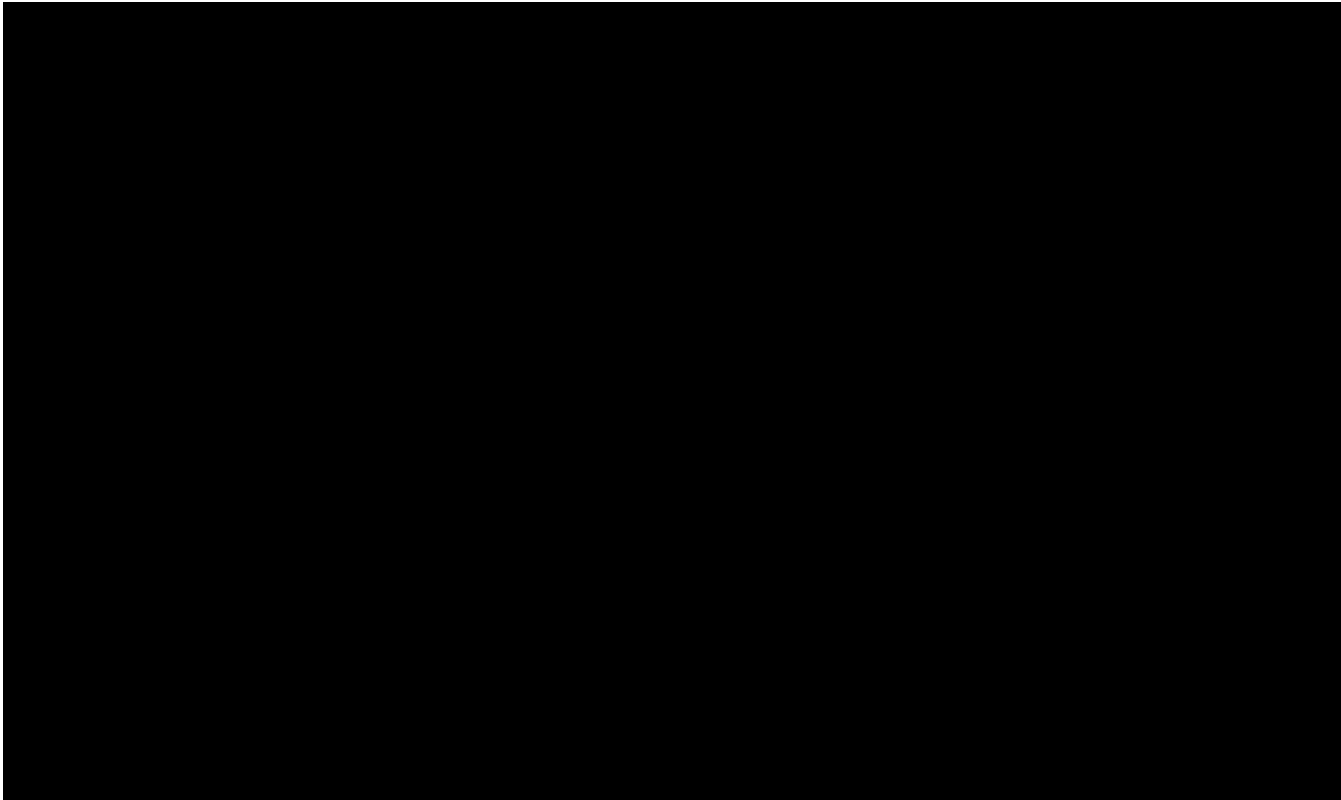
The *project bank* is

*named suppliers* are

Contract Execution

Client execution

Signed as a Deed by [PRINT NAME] for and on behalf of the Environment Agency



Signed as a Deed by [PRINT NAME] for and on behalf of VolkerStevin Infrastructure Limited

