





### YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF JOHANNESBURG WATER

BID NUMBER: JW OPS 005/25 CLOSING DATE 04 FEBRUARY 2026 CLOSING TIME: 10:30 AM

DESCRIPTION: TRANSPORTATION OF SEWAGE SLUDGE ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS.

BRIEFING SESSION	COMPULSORY YES
BRIEFING DETAILS	DATE AND TIME: 09 DECEMBER 2025 AT 10:00 AM
Sinci into 5217ii20	ADDRESS: TURBINE HALL, 65 NTEMI PILISO STREET, NEWTOWN, JOHANNESBURG, 2001
	VENUE : AUDITORIUM
	TENDERS RECEIVED FROM NON-ATTENDED BIDDERS OF A COMPULSORY BRIEFING SESSION WILL BE DISQUALIFIED
	Notes:
	For offsite briefings attendees are to ensure that transportation used is
	capable to access the gravel road for site viewing.
TENDER SUBMISSION DETAILS	BID DOCUMENTS MUST BE DEPOSITED IN THE TENDER BOX SITUATED AT GROUND FLOOR IN JOHANNESBURG WATER
	ADDRESS: TURBINE HALL, 65 NTEMI PILISO STREET, NEWTOWN, JOHANNESBURG, 2001
	PLEASE ALLOW SUFFICIENT TIME TO ACCESS THE JOHANNESBURG WATER OFFICE IN TURBINE HALL AND DEPOSIT YOUR TENDER DOCUMENT IN THE JOHANNESBURG WATER TENDER BOX SITUATED AT RECEPTION BEFORE THE TENDER CLOSING DATE AND TIME.
	TIMES: THE BUILDING WILL OPEN 7 DAYS A WEEK FROM 06:00AM UNTIL 18:00PM

BIDDER INFORMATION				
NAME OF BIDDER				
NO. OF DOCUMENTS		·		
PHYSICAL ADDRESS				
TELEPHONE NUMBER				
CELLPHONE NUMBER				
E-MAIL ADDRESS				
VAT REGISTRATION NUMBER				
TAX COMPLIANCE STATUS	TCS PIN		MAAA No	
OTHER STATUS	COIDA No.	N/A	CIDB No	N/A

EMPLOYER INFORMATION			
DEPARTMENT	OPERATIONS	DEPARTMENT	SCM
CONTACT PERSON	NTOKOZO MDLULI	CONTACT PERSON	NTABISENG MATABANE
TELEPHONE NUMBER	011 510 2604	TELEPHONE NUMBER	011 688 1512
E-MAIL ADDRESS	Ntokozo.mdluli@jwater.co.za	E-MAIL ADDRESS	nthabiseng.matabane@jwater.co.z







NOTE: DOCUMENTS MAY BE DOWNLOADED FROM THE JOHANNESBURG WATER WEBSITE AND ETENDER PORTAL AT NO COST BUT MUST COMPLY WITH SUBMISSION REQUIREMENTS.

WITHOUT LIMITATION, JOHANNESBURG WATER TAKES NO RESPONSIBILITY FOR ANY DELAYS IN ANY COURIER OR POSTAL SYSTEM OR ANY LOGISTICAL DELAYS WITHIN THE PREMISES OF JOHANNESBURG WATER. JOHANNESBURG WATER LIKEWISE TAKES NO RESPONSIBILITY FOR TENDER OFFERS DELIVERED TO A LOCATION OTHER THAN THE TENDER BOX AS PER THE TENDER SUBMISSION DETAILS STATED IN THE TENDER DOCUMENT. PROOF OF POSTING OR OF COURIER DELIVERY WILL NOT BE TAKEN BY JOHANNESBURG WATER AS PROOF OF DELIVERY. TENDER SUBMISSION DOCUMENTS MUST BE IN THE TENDER BOX BEFORE TENDER CLOSURE.

THE TENDERER IS ENCOURAGED TO SIGN THE TENDER SUBMISSION REGISTER WHEN SUBMITTING THEIR TENDERS.

PLEASE ENSURE YOU SUBMIT 1 x ORIGINAL TENDER HARD DOCUMENT (ALSO PROVIDE AN ELECTRONIC COPY IN A MEMORY STICK/USB).

Any documents required that are not submitted in the tender box at the deadline will be considered late.

The tenderer accepts that Johannesburg Water will not take responsibility for the misplacement or premature opening of the tender if the outer package is not sealed and marked as stated.

NB: NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.
NAME OF CONTACT PERSON:
SIGNATURE OF RIPPER
SIGNATURE OF BIDDER:
CAPACITY UNDER WHICH THIS BID IS SIGNED:
DATE
DATE:





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#### TENDER NOTICE AND INVITATION TO TENDER

### 1. Tender Notice and Invitation to Tender Johannesburg Water (SOC) Ltd invites the tenderer for the following:

CONTRACT NO. JW OPS 005/25 TRANSPORTATION OF SEWAGE SLUDGE ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS.

The tender document will be available in the form of a download from the Johannesburg Water website (<a href="www.johannesburgwater.co.za/supply chain/tenders">www.johannesburgwater.co.za/supply chain/tenders</a>) starting from 18!November 2025
The Employer is Johannesburg Water.

All tenders and supporting documents must be sealed and be placed in the Tender box on the ground floor of the Johannesburg Water by no later than 10:30 am on 04 February 2026 Address is as follows:

### TURBINE HALL, 65 NTEMI PILISO STREET, NEWTOWN, JOHANNESBURG, 2001

Johannesburg Water (SOC) Ltd is not obliged to accept the lowest or any tender and Johannesburg Water reserves to appoint:

- a) in whole or in part.
- b) to more than one tenderer.
- c) to the highest points scoring bidder.
- d) to the lowest acceptable tender or highest acceptable tender in terms of the point scoring system.
- e) to a bidder not scoring the highest points (based on objective grounds in terms of section 2 (1) (f) of the PPPFA) (where applicable).
- f) not to consider any bid with justifiable reasons.

A valid and binding contract with the successful tender/s will be concluded once Johannesburg Water has awarded the contract. Johannesburg Water (SOC) Ltd and the successful tenderer/s will sign the Letter of Award which together with the submitted tender document will form the contract.



2.



### CHECKLIST OF DOCUMENTS AND INFORMATION THAT WILL FORM PART OF CONTRACT Documents and Information That will Form Part of The Contract

The Tenderer is to indicate in the "Submitted (Yes/No)" column in the below table that they have completed the required section of the tender document. Completion of this checklist will assist the Tenderer in ensuring that they have attended to all the required items for submission with this tender. Additionally, it is an absolute requirement that tenderers comply with National Treasury's CSD registration as well as SARS tax compliance requirements for contract award. The below will form part of the tender document, the tenderers are therefore encouraged to submit the returnable and or documentation with their tender offer to avoid elimination especially with regards to what is stated in the Required for Tender Evaluation column or not obtaining points for Specific Goals. Tenderers are encouraged to ensure that their Tax status remains Tax Compliant on CSD throughout the process to avoid delaying the process or being eliminated at award stage.

All documentation and information listed in the Checklist below shall form part of the Contract.

Table 1

No	Description of Returnable/s or Documentation or Information that will form Part of Contract and must therefore to be Completed and / or Submitted by the Tenderer	Required for Tender Evaluation	Required for Tender Award	Required After Tender Award	Submitted (Yes/No)
1.	Tender Cover:			ı	I
	Name of Tender Contact Person	•			
	Telephone Number	•			
	Central Supplier Database Registration	•	•		
	COIDA Registration Number			•	
	Tax SARS PIN No.	•	•		
	MAAA No. for Tax Compliant Status		•		
2.	Mandatory Documents at Particular Stage:				
	The tenderer must submit proof of the mandatory documents for their offered trucks as they have offered in the pricing schedule of the tender document. The documentation must be submitted together with the tender Document.  Failure to do so shall render the tender liable for rejection on grounds of being non-complaint to the tendering conditions and will be disqualified.  The following documents are required for the sloper tipper offered:  a) Sloper Tipper Truck  Proof of Certificate of Registration in Respect of Motor Vehicle in accordance with the National Road Traffic Act.  Proof of valid Motor Vehicle Licence and Licence Disc in accordance with the National Road Traffic Act.  Note 1: Only sloper tipper trucks, accompanied by all required supporting documentation, will be considered in the evaluation process.	•			





a world	OF CHECKLIST OF DOCUMENTS AND INFORMATION THAT WILL FORM PART OF CONTRACT					
No	Description of Returnable/s or Documentation or Information that will form Part of Contract and must therefore to be Completed and / or Submitted by the Tenderer	Required for Tender Evaluation	Required for Tender Award	Required After Tender Award	Submitted (Yes/No)	
	Note 2: The proof of a valid Certificate of Registration, valid Motor Vehicle Licence, and Licence Disc submitted must be in the name of the Tenderer or the name of the company from which the Tenderer will be leasing the truck.					
	Note 3: If the Tenderer intends to hire or lease the truck(s) from another service provider, the Tenderer must submit a letter of intent to hire from the lessor for the offered truck(s). This must be accompanied by all required documentation as specified above. The letter of intent must clearly confirm that the truck(s) will be available for use as required.					
	Note 4: If the trucks offered are owned by the Tenderer, the Tenderer must submit a confirmation letter on the company's letterhead, committing to provide the trucks upon the contract's commencement date.					
	Note 5: As Johannesburg Water permits tenderers to hire sloper tipper trucks from lessors to meet their capacity requirements, tenderers hiring trucks are required to submit an alternate letter of intent and relevant documentation for the trucks offered. If tenderers submit both the original letter of intent and the alternate letter of intent, both documents will be evaluated to determine the number of trucks offered. Tenderers who fail to submit the alternate letter of intent and associated hire documentation will not be disqualified but will have only the original letter of intent considered in the evaluation. The letters of intent must also commit that the trucks will be available for use on the contract's commencement date. Please refer to the Allocation Strategy for detailed guidance on how the trucks offered will be assessed in accordance with Johannesburg Water's requirements.					
	Document 2	•				
-	Attendance of Compulsory Briefing Meeting - if mandatory  Price Schedule completed and signed	•				
3.	Administrative Documentation:	-				
-	Signed Certificate of Authority to Sign or Board	•				
	Resolution granting authority to sign.  Signed Acknowledgement of Tender Conditions	•	•			
	MBD 1 - Invitation to Bid - Completed and signed	•	•			
				<u> </u>		





a world	a world class African city  Johannesburg Water				
No	CHECKLIST OF DOCUMENTS AND INFORMATION THAT				Culpusitto d
No	Description of Returnable/s or Documentation	Required for Tender	Required for Tender	Required After	Submitted (Yes/No)
	or Information that will form Part of Contract	Evaluation	Award	Tender	(165/140)
	and must therefore to be Completed and / or	Zvaladiloli	/ twar a	Award	
	Submitted by the Tenderer				
	MBD 3.1 - Pricing Schedule - Firm Prices	•	•		
	(Purchases) completed and signed				
	(Acknowledgement that rates will be fixed for				
	duration of contract).				
	MBD 4 - Declaration of interest - Completed and	•	•		
	signed				
	MBD 5 - Declaration for procurement above R10	•	•		
	Million (all applicable taxes included) Completed				
	and signed.				
	MBD 6.1 - Preference Points Schedule – Specific	•			
	Goals and Price Points - Completed and signed.				
	MBD 8 - Bidder's past supply chain management	•	•		
	practices – Completed and signed.				
	MBD 9 - Certificate of Independent Bid	•	•		
	Determination – Completed and signed.				
	Municipal Rates and Taxes for the Tenderer -	•	•		
	Current municipal rates for the entity not older than				
	90 days (if leasing/renting, submitted proof such as				
	lease agreement where premises are rented), OR				
	Confirmation that suitable arrangements are in				
	place for arrear municipal obligations with your				
	local municipality. OR				
	Current municipal rates which is not older than 90				
	days or valid lease agreement with affidavit from				
	owner of property in cases where the submitted				
	municipal statement or lease agreement is not in				
	the name of the tenderer. Please refer to Proof of				
	Good Standing with Municipality Accounts				
	document in the tender document for cases when				
	the affidavit would be accepted.				
Ī	Municipal Rates and Taxes - Current municipal	•	•		
	rates for the directors of the entity not older than 90				
	days (if leasing/renting, submitted proof such of				
	lease agreement where premises are rented), OR				
	Confirmation that suitable arrangements are in				
	place for arrear municipal obligations with your				
	local municipality. OR				
	Current municipal rates which is not older than 90				
	days or valid lease agreement with affidavit from				
	owner of property in cases where the submitted				
	municipal statement or lease agreement is not in				
	the name of the director. Please refer to Proof of				
	Good Standing with Municipality Accounts				
	document in the tender document for cases when				
	the affidavit would be accepted.				
	3-year financial statements (audited where	•	•		
	applicable) if MBD 5 is applicable				
	Any qualifications. If "Yes", reference to such	•			





a world	class African city CHECKLIST OF DOCUMENTS AND INFORMATION THAT	WILL EODM D	ADT OF CONT		ourg vvater
No	Description of Returnable/s or Documentation	Required	Required	Required	Submitted
110	or Information that will form Part of Contract	for Tender	for Tender	After	(Yes/No)
	and must therefore to be Completed and / or	Evaluation	Award	Tender	
	Submitted by the Tenderer			Award	
	qualification/s must be indicated on a cover letter.				
	Please be aware that alterations on the tender				
	document may result in your tender being				
	eliminated as the qualification may impede on				
	the ability to evaluate like with like.  Occupational Health and Safety Declaration form –	•			
	if applicable				
	Joint Venture, consortium or equivalent agreement – if applicable	•	•		
4.	Functionality Documentation:				
	Documentary Evidence Required for Criteria 1-	•			
	Contactable reference letters				
	Documentary Evidence Required for Criteria 2-	•			
	Each CV must be accompanied by a valid EC				
	(Code 14) driver's licence with a PrDP. The number of CVs submitted must match the number				
	of trucks offered.				
	Site Inspection, Samples or Demonstration	•			
	Physical verification of equipment, samples,	•			
	demonstration or other				
5.	Specific Goals:				
	•Valid BBBEE Certificate issued by SANAS	•			
	accredited verification agency or DTI /CIPC				
	BBBEE Certificate for Exempted Micro Enterprises				
	<ul><li>or Affidavit sworn under oath.</li><li>Valid BBBEE Certificate issued by SANAS</li></ul>	•			
	accredited verification agency or DTI/CIPC BBBEE				
	Certificate for Exempted Micro Enterprises or				
	Affidavit sworn under oath, OR				
	• CIPC registration document showing percentage				
	of ownership and share certificate where				
	applicable				
	<ul> <li>Valid BBBEE Certificate issued by SANAS accredited verification agency or DTI/CIPC BBBEE</li> </ul>	•			
	Certificate for Exempted Micro Enterprises or				
	Affidavit sworn under oath, OR				
	• CIPC registration document showing percentage				
	of ownership and share certificate where				
	applicable				
	Valid BBBEE Certificate issued by SANAS     accredited verification agency or DTI/CIPC BBBEE	•			
	accredited verification agency or DTI/CIPC BBBEE Certificate for Exempted Micro Enterprises or				
	Affidavit sworn under oath, and				
	<ul> <li>Proof of municipal account / valid lease</li> </ul>				
	agreement, valid lease agreement letter, letter				
	from the Ward Council confirming the business				
	address.				
6.	Scope of Work:				
	Scope of Work and or Specifications	•			





behalf of the company) - if applicable

a work	CHECKLIST OF DOCUMENTS AND INFORMATION THAT	WILL FORM P	ART OF CONT	RACT	2 4 1 9 1 1 4 1 1
No	Description of Returnable/s or Documentation or Information that will form Part of Contract and must therefore to be Completed and / or Submitted by the Tenderer	Required for Tender Evaluation	Required for Tender Award	Required After Tender Award	Submitted (Yes/No)
7.	Pricing Schedule:				
	Pricing Schedule completed in accordance with the award strategy	•			
	Alterations authenticated – Refer to Acknowledgment of Tender Conditions	•			
8.	Terms and Conditions:				
	General Conditions of Contract	•			
	Special Conditions of Contract	•			
9.	Other Documents				
	Letter of Award			•	
	Bank Details Form			•	
	Public Liability Insurance			•	
	Professional Indemnity			•	
	Valid Registration with Compensation for Occupation Injuries and Diseases Act			•	
	Performance Security – where applicable for industrial related services			•	
	Resolution Letter for the Subcontractor (a letter authorizing the person completing the tender to sign on		•		

Tenderers will be notified of any omitted, outstanding, missing and or incomplete administrative documents and will be offered a period of 3 days to complete or submit those pages i.e., Municipal Bidding Documents (MBD), authority to sign and other administrative documents that require completion and signatures. These exclude documentation on functionality, price, points for specific goals and MBD6.2 Local Production and Content.

Tenders that are received contrary to the above requirements will be disqualified after three (3) days period has lapsed.

If locality is a specific goal in MBD6.1 – the requested documentation may not be used to allocate points for specific goals.





### **CERTIFICATE OF AUTHORITY**

### 3. Certificate of Authority

Indicate the status of the Tenderer by ticking the appropriate box hereunder. The Tenderer must complete the certificate set out below for the relevant category.

(I) COMPA	NY	(II) CLOSE CORPORATION	(III) PARTNERSHIP	(IV) JOINT VENTURE	(V) SOLE PROPRIETOR

### (I) Certificate For Company

I,	, chairperson of the Board of Directors of
	, hereby confirm that by resolution of the Board
taken on	, Mr/Ms, acting in the capacity of
	, was authorized to sign all documents in connection with
tender JW	and any contract resulting from it on behalf of the company.
Chairman:	
As Witnesses:	1
	2
Date:	





### **CERTIFICATE OF AUTHORITY**

We, the undersigned, being the key members in the business trading as ......

### (II) <u>Certificate For Close Corporation</u>

and any contract resu	, to sign all documents in connection with the and any contract resulting from it on our behalf.					
NAME	ADDRESS	SIGNATURE	DAT			

Note: This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.





### **ACKNOWLEDGEMENT OF BID CONDITIONS**

### (III) Certificate For Partnership

NAME	ADDRESS	SIGNATURE	DATE

Note: This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.





### **ACKNOWLEDGEMENT OF BID CONDITIONS**

### (IV) Certificate For Joint Venture

This Returnable Schede	ule is to be completed by joint ven	tures.
We, the undersigned, a	re submitting this tender offer in J	oint Venture and hereby authorize Mr./Ms
	, authorized sign	natory of the company
		, acting in the capacity of lead partner, to sign
all documents in conne	ction with the tender offer and any	contract resulting from it on our behalf.
NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature
		Name
		Designation
		Signature
		Name
		Designation
		Signature
		Name
		Designation

Note: This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Joint Venture as a whole.





# ACKNOWLEDGEMENT OF BID CONDITIONS Certificate For Sole Proprietor

Date: .....

, hereby confirm that I am the sole owner of the Business
ading asand the person authorized hereunder
s duly authorized to sign all documents related to tender JW
nd contract resulting therefrom.
signature of Sole owner:
as Witnesses:



### **ACKNOWLEDGEMENT OF BID CONDITIONS**



### 4. Acknowledgement of Bid Conditions

1 I/We hereby bid to supply all or any of the supplies and/or to render all or any of the services described in the attached documents to Johannesburg Water (SOC) Ltd on the terms and conditions and in accordance with the specifications stipulated in the bid documents (and which shall be taken as part of, and incorporated into, this bid) at the prices and on the terms regarding time for delivery and/or execution inserted therein.

### 2 I/We agree that -

- (a) the offer herein shall remain binding upon me/us and open for acceptance by Johannesburg Water (SOC) Ltd during the validity period indicated and calculated from the closing time of the bid or agreed validity period;
- (b) this bid and its acceptance shall be subject to the terms and conditions embodied herein with which I am/we are fully acquainted;
- (c) if I/we withdraw my/our bid within the period for which I/we have agreed that the bid shall remain open for acceptance, or fail to fulfil the contract when called upon to do so, Johannesburg Water (SOC) Ltd, without prejudice to its other rights, agree to the withdrawal of my/our bid or cancel the contract that may have been entered into between me/us and Johannesburg Water (SOC) Ltd and I/we will then pay to Johannesburg Water (SOC) Ltd any additional expense incurred by having either to accept any less favourable bid or, if fresh bids have to be invited, the additional expenditure incurred by the invitation of fresh bids and by the subsequent acceptance of any less favourable bid; Johannesburg Water (SOC) Ltd shall also have the right to recover such additional expenditure by set-off against moneys which may be due or become due to me/us under this or any other bid or contract or against any guarantee or deposit that may have been furnished by me/us or on my/our behalf for the due fulfilment of this or any other bid or contract and pending the ascertainment of the amount of such additional expenditure to retain such moneys, guarantee or deposit as security for any loss Johannesburg Water (SOC) Ltd may sustain by reason of my/our default;
- (d) if my/our bid is accepted the acceptance may be communicated to me/us by electronic mail (e-mail), faxed letter or by order by ordinary post or registered post and that SA Post Office Ltd shall be regarded as my/our agent, and delivery of such acceptance to SA Post Office Ltd shall be treated as delivery to me/us.
- (e) the law of the Republic of South Africa shall govern the contract created by the acceptance of my/our bid.
- 3 I/We furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our bid; that the price(s) and rate(s) quoted cover all the work/item(s) specified in the bid documents and that the price(s) and rate(s) cover all my/our obligations under a resulting contract and that I/we accept that any mistakes regarding price(s) and calculations will be at my/our risk.
- 4 I/We hereby accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me/us under this agreement as the principal(s) liable for the due fulfilment of this contract.
- 5 I/We agree that any action arising from this contract may in all respects be instituted against me/us and I/we hereby undertake to satisfy fully any sentence or judgement which may be pronounced against me/us as a result of such action.

Details of my / our offer are / are as follows:

6 We undertake, if our Tender is accepted, to execute the contract in accordance with the requirements as specified.





#### **ACKNOWLEDGEMENT OF BID CONDITIONS**

- 7 Until a formal Contract is prepared and executed, this Tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.
- 8 We understand that Johannesburg Water is not bound to accept the lowest or any tender it may receive, and that the contract may be awarded in whole or in part and to more than one tenderer.
- 9 Should my/our tender be successful, it be understood that a contract will come into existence for the duration of contract stated in the tender document which will commence from the date indicated in the letter of acceptance.

#### INSTRUCTIONS TO BIDDERS

NB: Each bid must be submitted in a separate, sealed envelope on which the NAME AND ADDRESS OF THE BIDDER, THE BID NUMBER, DESCRIPTION OF BID AND THE CLOSING DATE must be clearly endorsed. The bid must be addressed to Supply Chain Management Unit, Johannesburg Water (SOC) (SOC) Ltd and deposited in the BID BOX situated at the entrance: Turbine Hall,65 Ntemi Piliso Street, Newtown, Johannesburg.

It is the responsibility of the bidder to ensure that their /his / her bid document is submitted in a sealed envelope and placed in the Bid Box in good time so as not to miss the official deadline of 10:30 am on the closing date.

Bid documents submitted via courier services will be acceptable provided that the bidder instructs such courier company or its representative to deposit the documents in the bid box. Documents should under no circumstances be handed to an employee of Johannesburg Water as it may not be held accountable in the event of any loss thereafter.

Bid documents may not be submitted via the South African Post Office as only bid documents received in the Bid Box at the time of closing will be taken into account.

Bid documents received from non-attended bidders of a compulsory briefing session will be disqualified.

Tenderers are to allow for sufficient time to access Johannesburg Water offices in Turbine Hall and deposit their bid document in the Johannesburg Water tender box situated at reception before tender closing time. Tenderers are to note that the Johannesburg Water offices are open during 06:00am and 18:00pm seven (7) days a week.

### IMPORTANT CONDITIONS

- 1 Bid documents must be completed using non-erasable black ink. Bids that are received contrary to this requirement will be disqualified. This condition applies to bid documents purchased as well as bid documents downloaded from the e-tender portal.
- 2 Bids should be submitted on the official forms provided. Should any conditions of the bid be qualified by the bidder, Johannesburg Water may disqualify the bid.
- If any of the conditions on this bid form are in conflict with any special conditions, stipulations or provisions incorporated in the bid, such special conditions, stipulations or provisions shall apply.
- 4 Bids received after the closing time and date will not be accepted and will be returned to the bidder unopened.
- All bid documents must be in sealed envelopes and deposited in the Official Bid Box situated at Turbine Hall, 65 Ntemi Piliso Street, Newtown.
- 6 Bids should as far as possible be submitted in their entirety. Such bid documents should also comply with





### **ACKNOWLEDGEMENT OF BID CONDITIONS**

submission requirements as described therein and should be bound in such a way that pages will not go missing.

- 7 Tender documents may be completed electronically without altering or tampering with any of the terms, conditions, specifications, pricing schedule etc. in the tender documents. Tender documents received contrary to this requirement will be disqualified.
- 8 It is an absolute requirement that the bidders tax matters are in order. To this effect, the bidder must furnish their Tax Compliance Status Pin or CSD MAAA number for bids as requested elsewhere in the bid document.
- Tenderers will be notified of any omitted, outstanding, missing and or incomplete administrative documents and will be offered a period of 3 days to complete or submit those pages i.e., Municipal Bidding Documents (MBD), authority to sign and other administrative documents that require completion and signatures. These exclude documentation on functionality, price and preference points for specific goals, and MBD6.2 Local Production and Content. In cases where locality is a specific goal and the bidder did not submit the required documentation, the tenderer upon submitting the municipal statement, lease agreement or letter from ward councilor confirming business address as per above, may not be eligible for points under specific goals if such documentation required for administrative compliance was not submitted with the tender submission.
- 10 Pricing schedule must be completed and signed in accordance with award strategy. Bids that are received contrary to this requirement will be disqualified.
- 11 Tenderer's authorized signatory to sign or initial next to the price alteration.
- 12 The evaluation on price alteration will be conducted as follows:
  - 12.1. Where the tender award strategy is to evaluate and award per item or category, the following must apply:
    - (i) If there is an alteration on the rate but no alteration on the total for the item or category, the bidder will not be disqualified.
    - (ii) If there is an alteration on the total for the item/s without authentication, bidders will only be disqualified for alteration per item or category.
  - 12.2. Where the tender award strategy is to evaluate and award total bid offer, the following must apply:
    - (i) If there is an alteration on the rate, total for the line item, sub-total/ sum brought/carried forward for the section but no alteration on the total bid offer, the bidder will not be disqualified.
    - (ii) If there is an alteration on the total bid offer on form of offer then the amount in words must be considered or vice-versa.
    - (iii) If there is an unauthenticated alteration on the total bid offer and the amount in words is not authenticated, the bidders will be disqualified for the entire tender.
  - 12.3. Where the tender pricing schedule or bill of quantities is requesting rates/price from bidder/s without providing a total, the following will apply:
    - (i) If there is an unauthenticated alteration on the unit rate/price the bidder must be disqualified.
- 13 The price will mean an amount tendered for goods or services and included all applicable taxes less all unconditional discounts.
- 14 The tender may be rejected if the tenderer does not correct or accept the correction of the arithmetical error communicated to the tenderer by Johannesburg Water. Acceptance of the correction to the arithmetic error must be in writing.
- 15 Tenderers are allowed to offer selective items (not all items as per BOQ) where applicable. Items that are left blank will be regarded as non-offered items.
- 16 Johannesburg Water reserves the right to enter into mandated negotiations to achieve cost effectiveness with any one or more selected tenderers in accordance with Johannesburg Water's approved SCM





ass African city

ACKNOWLEDGEMENT OF BID CONDITIONS

procurement policy. In such a situation, Objective Criteria of Cost Effectives in conjunction with section 2 (1) (f) of the PPPFA) is applicable to this tender.

- 17 Objective Criteria: Notwithstanding compliance regarding any requirements of the tender, JW will perform a risk analysis in respect of the following:
  - a) reasonableness of the financial offer
  - b) reasonableness of unit rates and prices
  - c) the tenderer's ability or financial capacity to fulfil its obligations. The financial statements will be analysed in accordance with the uniform financial rations and industry norms. The following rations will be used to determine the financial stability of the company: current ratio, solvency ratio, operating profit margin and cost coverage will be assessed.

The conclusions drawn from this risk analysis will be used by JW in determining whether to accept the bid offer or to reject the bid offer. In such a case Objective Criteria of Risk Management based on the risk assessment will be used in conjunction with section 2 (1) (f) of the PPPFA).

18 JW Reservations:

JW reserves the right to award contracts and tenders at its discretion on the basis of the following

- a) in whole or in part.
- b) to more than one tenderer.
- c) to the highest points scoring bidder.
- d) to the lowest acceptable tender or highest acceptable tender in terms of the point scoring system.
- e) to a bidder not scoring the highest points (based on objective grounds in terms of section 2 (1) (f) of the PPPFA) (where applicable).
- f) not to consider any bid with justifiable reasons.

SIGNATURE(S)OF AUTHORIZED PERSON	
DATE:	
Name bidder	of
Name of authorized person (in block letters)	





a world class African city INVITATION TO BID MBD 1

### 5. Invitation to Bid

YOU ARE HERE	BY IN	/ITED TO BID FO	OR REQUIREMENTS	FOR JOHA	NNESBURG WA	TER		
BID NUMBER:	IW O	PS 005/25	CLOSING DATE:		04 FEBRUARY 2026		OSING TIME:	10:30 AM
BID NUMBER.				E ON AN "A				
DESCRIPTION	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
BID RESPONSE	DOCU	IMENTS MAY BE	DEPOSITED IN THE	BID BOX	SITUATED AT (S	STREET	T ADDRESS)	
JOHANNESBURG WATER								
TURBINE HAL	TURBINE HALL, 65 NTEMI PILISO STREET, NEWTOWN							
JOHANNESBURG, 2001								
	EDURE	ENQUIRIES MA	Y BE DIRECTED	TECUNIC	AL ENQUIRIES I	MAV DI	E DIDECTED TO	
CONTACT PERS	SON	NTHABISENG I	MATARANE		PERSON	VIA I DI	NTOKOZO	
TELEPHONE	JOIN	MINADIOLINO	VICTOBANE	OONTAO	LINOON		MIOROZO	WIDLOLI
NUMBER		011 688 1512	_		NE NUMBER		011 510 26	
E-MAIL ADDRES	-		<u>abane@jwa</u> ter.co.za	E-MAIL A	DDRESS		Ntokozo.m	<u> dluli@jwater.co.za</u>
SUPPLIER INFO	RMAT	ION						
NAME OF BIDDE	ΞR							
POSTAL ADDRE	SS							
STREET ADDRE	SS							
TELEPHONE NUMBER		CODE			NUMBER			
CELLPHONE		CODE			NONDEK			
NUMBER								
E-MAIL ADDRES								
VAT REGISTRAT NUMBER	TION							
SUPPLIER COMPLIANCE		TAX COMPLIANCE			CENTRAL SUPPLIER			
STATUS		SYSTEM PIN:		OR	DATABASE			
D DDEE		TIOI/ ADD	104515 507	D DDEE 0	No:	MAAA		10451 5 5014
B-BBEE CERTIFICATE		TICK APPI	LICABLE BOX]	B-BBEE S	WORN AFFIDAV	/11	[TICK APP	LICABLE BOX]
		☐ Yes	☐ No				Yes	☐ No
			ON SECTION FO			ERIFIC	CATION DOC	UMENTATION
REQUIRED T	O QU	ALIFY FOR P	OINTS FOR SPE	CIFIC GO	ALS			
ARE YOU THE								
ACCREDITED					A FOREIGN BA			<u></u>
REPRESENTAT		_	_		R FOR THE GOC	DS	Yes	□No
IN SOUTH AFRI		☐ Yes	□No		S/WORKS			
FOR THE GOOD	-			OFFERED	)?		[IF YES, ANSWI	
/SERVICES /WO	RKS	[IF YES ENCLO	SE PROOF]				QUESTIONNAIF	RE BELOW ]
OFFERED?	- TO 1		AN OURDUIEDO					
QUESTIONNAIR	EIUI	BIDDING FOREIC	ON SUPPLIERS					
IS THE ENTITY	A RESI	DENT OF THE R	EPUBLIC OF SOUTH	AFRICA (F	RSA)?			☐ YES ☐ NO
DOES THE ENT	ITY HA	VE A BRANCH IN	NTHE RSA?					☐ YES ☐ NO
DOES THE ENT	DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?							





a world class African city INVITATION TO BID MBD 1

DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?  IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREM	YES NO
STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE	
BELOW.	

# PART B TERMS AND CONDITIONS FOR BIDDING

#### 1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.

#### 2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PA	RTICULARS MAY RENDER THE BID INVALID.
SIGNATURE OF BIDDER:	
CAPACITY UNDER WHICH THIS BID IS SIGNED: (Proof of authority must be submitted e.g., company resolution)	
DATE:	





### PRICING SCHEDULE – FIRM PRICES (PURCHASES)

**MBD 3.1** 

6. Pricing Schedule - Firm Prices MBD 3.1

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name	e of Bidder	Bid Number	
Closir	ng Time	Closing Date	
OFFE	R TO BE VALID FOR 90 DAYS FROM TH	HE CLOSING DATE OF BID.	
ITEM NO. INCLU		BID PRICE IN RSA CURRENCY  **(ALL APPI	LICABLE TAXES
-	Required by:		
-	At:		
-	Brand and Model		
-	Country of Origin		
-	Does the offer comply with the specification(	s)? *YES	/NO
-	If not to specification, indicate deviation(s)		
-	Period required for delivery	*Deli	/ery: Firm/Not firm
-	Delivery basis		
Note:	All delivery costs must be included in the bid	price, for delivery at the prescribed destination.	
	applicable taxes" includes value- added ta utions and skills development levies.	ax, pay as you earn, income tax, unemploymen	t insurance fund
*Delete	e if not applicable		
SIGNA	TURE(S) OF AUTHORIZED PERSON		
DATE:			





### **DECLARATION OF INTEREST**

MBD 4

#### 7. Declaration of Interest MBD 4

- 1. No bid will be accepted from persons in the service of the state<sup>1</sup>.
- 2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.
- 3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

3.1	Full Name of bidder or his or her representative:
3.2	Identity Number:
3.3	Position occupied in the Company (director, trustee, hareholder²):
3.4	Company Registration Number:
3.5	Tax Reference Number:
3.6	VAT Registration Number:
3.7	The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
3.8	Are you presently in the service of the state? YES / NO
	3.8.1 If yes, furnish particulars.

<sup>1</sup>MSCM Regulations: "in the service of the state" means to be –

- (a) a member of -
  - (i) any municipal council;
  - (ii) any provincial legislature; or
  - (iii) the national Assembly or the national Council of provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999):
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.
- <sup>2</sup> Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.





**DECLARATION OF INTEREST** 

		_	_	_
N	1 F	۲Г	7	4

3.9	Have you been in the service of the state for the past twelve months?	YES/NO
	3.9.1 If yes, furnish particulars	
3.10	Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?	
	3.10.1 If yes, furnish particulars.	
3.11	Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid?	YES / NO
	3.11.1 If yes, furnish particulars	
3.12	Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?	YES / NO
	3.12.1 If yes, furnish particulars.	
3.13	Are any spouse, child or parent of the company's directors trustees, managers, principle shareholders or stakeholders in service of the state?	YES / NO
	3.13.1 If yes, furnish particulars.	
3.14	Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract.	YES / NO
	3.14.1 If yes, furnish particulars:	

\*Tenderers are encouraged to truthfully declare all other company interests they may have, with specific reference to Question 3.14, of which if not fully completed, might lead to disqualification. Tenderers are encouraged to utilise the CIPC bizportal (<a href="www.bizportal.gov.za">www.bizportal.gov.za</a>), free registration to check the companies for which a director is a director for. This can be done by inserting an ID number for the director tendering and the portal will show all companies, whether active or not.





### **DECLARATION OF INTEREST**

MBD 4

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number
Signature	Date	
Capacity	 Name of I	Bidder





MBD 5

8.

For all procurement expected to exceed R10 million	(VAT included)	, bidders must c	omplete the fo	llowing
questionnaire:				

о.	Deciaration For Procurement Above KTO Million (VAT included)	MIDD 2
	all procurement expected to exceed R10 million (VAT included), bid stionnaire:	ders must complete the follo
	re you by law required to prepare annual financial statements for auditing?	YES / NO
	*In the event the Annual Financial Statements submitted with this tender reflect that the tenderer is not required by law to have such statement audited, Johannesburg Water reserves the discretion to interpret your selection of "Yes" as a "No" and analyse it accordingly.	
1.1	If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.	
2.	If the bidder is not required by law to prepare annual financial	
	statements for auditing, they shall be required to furnish their Annual Financial Statements -  i.for the past three years, or ii. since their establishment if established during the past three years	
3.	Do you have any outstanding undisputed commitments for municipal services towards a municipality or any other service provider in respect of which payment is overdue for more than 30 days?	YES / NO
3.1	If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days.	
3.2	If yes, provide particulars.	





MBD 5

4.	Has any contract been awarded to you by an or during the past five years, including particular material non-compliance or dispute condexecution of such contract?	lars of any	
4.1	If yes, furnish particulars		
5.	Will any portion of goods or services be sourced the Republic, and, if so, what portion and whethe of payment from the municipality / municipal expected to be transferred out of the Republic?	r any portion	YES / NO
5.1	If yes, furnish particulars		
	CEI	RTIFICATION	
ı	, THE UNDERSIGNED (NAME)		
(	CERTIFY THAT THE INFORMATION FURN	NISHED ON THIS DECLARATION	ON FORM IS CORRECT.
	I ACCEPT THAT THE STATE MAY ACT A BE FALSE.	GAINST ME SHOULD THIS DE	CLARATION PROVE TO
	Signature	 Date	
	Position	 Name of Bidder	





MBD 5

### 9. Preference Points Claim Form in Terms of The Preferential Procurement Regulations 2022 -80/20

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS. 2022

### 1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
  - the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included).
- 1.2 The applicable preference point system for this tender is the 80/20 preference point system.
- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:
  - a) Price; and
  - b) Specific Goals.

#### 1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

### 2. **DEFINITIONS**

- a) "**tender**" means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- b) **"price"** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- c) **"rand value"** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes:





- d) "tender for income-generating contracts" means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- e) "the Act" means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).
- 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES
- 3.1 POINTS AWARDED FOR PRICE
- a) THE 80/20 PREFERENCE POINT SYSTEMS

A maximum of 80 points is allocated for price on the following basis:

80/20

$$Ps = 80 (1 - \frac{Pt - P \min}{P \min})$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration
Pmin = Price of lowest acceptable tender

### 4. POINTS AWARDED FOR SPECIFIC GOALS

4.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in Table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:





MBD 5

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)	Number of points claimed (80/20 system) (To be completed by the tenderer)
SMME (An EME or QSE) 51% or more Black owned	4	
Business owned by 51% or more Women	6	
Business owned by 51% or more-Black Youth	6	
Businesses located within the boundaries of a region in COJ, COJ municipality	4	
Total	20	

5.	DECLARATION WITH REGARD TO COMPANY/FIRM
5.1	Name of company/firm
5.2	Company registration number:
5.3	TYPE OF COMPANY/ FIRM
	<ul> <li>Partnership/Joint Venture / Consortium</li> <li>One-person business/sole propriety</li> <li>Close corporation</li> <li>Public Company</li> <li>Personal Liability Company</li> <li>(Pty) Limited</li> <li>Non-Profit Company</li> <li>State Owned Company</li> <li>[TICK APPLICABLE BOX]</li> </ul>

- I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:
  - i) The information furnished is true and correct;
  - ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
  - iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
  - iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –





MBD 5

- (a) disqualify the person from the tendering process;
- (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
- (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution, if deemed necessary.

	SIGNATURE(S) OF TENDERER(S)
SURNAME AND NAME:	
DATE:	
ADDRESS:	





### **DECLARATION OF BIDDER'S PAST SUPPLY CHAIN PRACTICES**

MBD 8

### 10. Declaration of bidder's Past Supply Chain Management Practices MBD 8

- 1 This Municipal Bidding Document must form part of all bids invited.
- It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- The bid of any bidder may be rejected if that bidder, or any of its directors have:
  - a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
  - b. been convicted for fraud or corruption during the past five years;
  - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
  - d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

ltem	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?	Yes	No
	(Companies or persons who are listed on this Database were informed		
	in writing of this restriction by the Accounting Officer/Authority of the		
	institution that imposed the restriction after the audi alteram partem rule		
	was applied).		
	The Database of Restricted Suppliers now resides on the National		
	Treasury's website( <u>www.treasury.gov.za</u> ) and can be accessed by		
	clicking on its link at the bottom of the home page.		
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?	Yes	No
	The Register for Tender Defaulters can be accessed on the National Treasury's website ( <a href="www.treasury.gov.za">www.treasury.gov.za</a> ) by clicking on its link at the bottom of the home page.		
4.2.1	If so, furnish particulars:		





### DECLARATION OF BIDDER'S PAST SUPPLY CHAIN PRACTICES

MBD 8

4.3	Was the bidder or any of its directors convicted by a cour (including a court of law outside the Republic of South Afron corruption during the past five years?		No 🗌
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal taxes or municipal charges to the municipality / municipal any other municipality / municipal entity, that is in arrears three months?	al entity, or to	No
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal other organ of state terminated during the past five years on account of perform on or comply with the contract?		No 🗌
4.7.1	If so, furnish particulars:		
	CERTIFICATION		
CERT	E UNDERSIGNED (FULL NAME)TIFY THAT THE INFORMATION FURNISHED ON THIS LARATION FORM TRUE AND CORRECT.		
I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.			
•••••	••••••	••••••	
Signa	ature Date		
Posit	ion Name	of Bidder	





### CERTIFICATE OF INDEPENDENT BID DETERMINATION

MBD9

### 11. Certificate of Independent Bid Determination MBD 9

- 1 This Municipal Bidding Document (MBD) must form part of all bids<sup>1</sup> invited.
- Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).<sup>2</sup> Collusive bidding is a pe se prohibition meaning that it cannot be justified under any grounds.
- Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
  - a. take all reasonable steps to prevent such abuse;
  - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
  - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:
- <sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.
- <sup>2</sup> Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.





### CERTIFICATE OF INDEPENDENT BID DETERMINATION

MBD 9

i, the undersigned, in submitting tr	ie accompanying bid.
	(Bid Number and Description)
in response to the invitation for the	e bid made by:
	(Name of Municipality / Municipal Entity)
do hereby make the following state	ements that I certify to be true and complete in every respect:
I certify, on behalf of:	that:
	(Name of Bidder)

1. I have read and I understand the contents of this Certificate;

I the undersianed is submitting the accompanying hid.

- 2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
- 3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
- 4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
- 5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
  - (a) has been requested to submit a bid in response to this bid invitation;
  - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
  - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
- 6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
- 7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - (a) prices;
  - (b) geographical area where product or service will be rendered (market allocation)
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a bid;





#### CERTIFICATE OF INDEPENDENT BID DETERMINATION

MBD9

- (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
- (f) bidding with the intention not to win the bid.
- 8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
- The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- <sup>3</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.
  - 10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

Signature	Date
Position	Name of Bidder





### PROOF OF GOOD STANDING WITH REGARDS TO MUNICIPAL ACCOUNT

### 12. Proof of Good Standing With Regards to Municipal Account

The tenderer is to affix to this page:

- Proof that the tenderer and directors of the tenderer are not in arrears for more than 90 days with municipal rates and taxes and municipal service charges. The latest municipal account is to be attached;
- Signed copy of the valid lease agreement if the tenderer or director of the tenderer is currently leasing premises and not responsible for paying municipal accounts

### Note:

- 1. Should the municipal statement that was submitted with the tender document before tender closing date and time be in arrears for more than 90 days at time of award, the tenderer will be requested to submit the latest municipal statement which shows that the tenderer is not in arrears for more than 90 days. If the statement at that time is in arrears for more than 90 days, the tenderer must submit before the stipulated deadline, the written proof of an approved arrangement with the municipality.
- 2. The proof may be a copy of the agreement or an updated municipal statement which reflects the arrangement.
- 3. Should this tender be considered for award of the contract, based on proof of submission and should proof of such submission be found to be invalid, erroneous or inaccurate, the tenderer will no longer be considered for the award of the contract.
- 4. Statement must not be older than 90 days from the closing date of this tender. Attach latest municipal account statement behind this page.
- 5. In cases where the director of the tenderer resides with their spouse, parent, partner or sibling the owner of the property that confirm where the director of the tenderer resides must submit an affidavit stating such and explaining the relationship. This would happen in the case where the submitted municipal statement or lease agreement is not in the name of the director of the tenderer. Note 1 will be applicable.
- 6. In cases where the business address of the tenderer is also the official residence of the director of the tenderer, the director of the tenderer must submit an affidavit stating such. Proof that the municipal statement is not in arrears for more than 90 days or a valid lease agreement must be submitted. Note 1 will be applicable.





# **RECORD OF ADDENDA**

# 13. Record of Addenda

We confirm that the following communications received from the employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer. Communications regarding the revision of this tender document can also be viewed on the following website: <a href="https://www.johannesburgwater.co.za/supply">www.johannesburgwater.co.za/supply</a> chain/tenders.

Note: Tenderers are to check the JW website at least seven (7) days before the tender closing date and time for any communication in regard to the tender.

	DATE	TITLE OR DETAILS
1.		
2.		
3.		
4.		
5.		
6.		

SIGNATURE(S)OF AUTHORIZED PERSON:	
NAME AND SURNAME	
DATE:	





#### **SCOPE OF WORK**

# 14. Scope of Work

#### 1.SPECIFICATIONS

1. GENERAL

1.1 30m3 Sloper Tipper Truck Specifications



- 1) The load body shall be large capacity unit with "struck-back" with a minimum capacity of 30m³. The load body shall be a large tri-axle unit equipped with a tailgate, which shall automatically open and close with the raising and lowering of the body. An additional acceptable safety mechanism is required to prevent spillages in transit.
- 2) The sloper tipper truck will consist of a front unit incorporating the driver's cabin, engine and transmission and hydraulic power units, which will be connected to the load body unit via a hinge arrangement. All movements between front and rear units shall be hydraulically actuated and controlled by the driver in the cab.
- 3) The front unit shall have a box-section frame, which will carry the engine, transmission and the driver's cab and will locate the front suspension. The hinge unit between the front and rear units shall provide articulation to allow the sloper tipper truck to be steered but shall also allow rotation to ensure that all wheels remain in contact with the ground under all load conditions.
- 4) The load body shall be carried on a box-section rear frame, which shall carry the load body and will locate the two rear suspension units and be connected to the front unit via the hinge. Horses to be equipped with a double differential (6x4).
- 5) The front axle shall be pivoted at its center point to allow movement in the vertical plane. The tow rear axles shall be connected via A-frames and lateral tie rods to ensure large angular movements and independent wheel movements.





#### **SCOPE OF WORK**

- 6) The driver's cab shall be fully enclosed and lockable and be of the Roll over Protection Structure type. The cab shall provide logical convenient placement and operation of all the controls to limit driver fatigue. The cab shall be fitted with large laminated front windshield and tinted glass side and rear windows. The cab shall have an air ventilation system delivering pressurized filtered air, be heated and provided with a windscreen demister and shall be insulated against noise and temperature.
- 7) The sloper tipper truck shall be monitored by the operator on all critical machine functions and alert the driver before major mechanical electrical failures occur by an onboard electronic monitoring system.
- 8) An active satellite management system must be installed in all vehicles to record trip positions (including offloading position, date time route and distances travelled). A tracker report or macrograph with detailed information is also acceptable. This information must be accessible to JW within 24 hours of a request during the contract term.
- 9) The following standard equipment shall be provided on the tipper truck:
- a) Back-up audible alarm
- b) Battery boxes which must be lockable
- c) Headlights with dip control
- d) Electric hooter
- e) Cab interior lights
- f) Side lights, reversing lights, taillights and rear brake lights, direction indicator lights and hazard warning lights at front and rear of machine
- g) Left and right rear-view mirrors
- h) Two speed windscreen and rear window wipers and washer units
- i) Lockable filler caps on fuel tank, engine oil, hydraulic oil tanks and radiator
- j) Lockable drain plugs on engine oil sump; transmission drain plugs and radiator
- k) Spare wheel including tyre
- I) Adjustable seat
- m) Sun visor
- n) Lockable toolbox with standard tool kit
- o) Front and rear tow pings
- p) Inter- axle differential lock
- q) Parking brakes
- r) Electronic monitoring system panel shall contain the following instrumentation:
  - Coolant temperature
  - Retarder oil temperature





#### SCOPE OF WORK

- Brake-on light
- Alternator failure light
- Fuel filter blockage indication and
- Fuel level gauge
- · Running hour meter

## 1.2 Procedure of Operations

- 1) The sludge will be loaded at the Treatment Works by Front end Loader supplied by JW and the trucks must transport it to disposal areas / sites as indicated by JW.
- 2) No spillages whatsoever should occur during transportation and the contractor must be ready to immediately clean up and treat any unforeseen spillages at his costs and report it to the relevant Process Manager, sludge coordinator or Senior Manager: Bulk Wastewater.
- 3) JW reserves its right to cancel the contract with immediate effect if unacceptable and unnecessary spillages occur.
- 4) Trucks must be able to transport sewage to farmland (off road) where no roads exist.
- 5) Trucks can be stored on the Works sites as designated by the respective Senior Manager Bulk Wastewater, at the contractor's own risks. JW shall in no way be responsible for trucks stored in the allocated areas. Although JW provides security at its Works, the Contractor can make his own security arrangements and must indemnify JW against any loss or damage.
- 6) The contractor's driver shall be responsible to ensure that his truck has been fully loaded up to the markings in the trailer before he leaves the loading and offloading sites.
- 7) JW reserves the right to at any time measure the weight of the trucks or to check volumes on their way in or out of the works.
- 8) Under-loading of the trucks or failure to empty the full load at the disposal point shall result in JW applying penalties for non-performance and cancellation of the contract thereafter.
- 9) The sludge will be transported from the following JW Treatment Works:
  - Bushkoppies Wastewater Treatment Works
  - Driefontein Wastewater Treatment Works





## SCOPE OF WORK

- Ennerdale Wastewater Treatment Works
- Goudkoppies Wastewater Treatment Works
- Northern Wastewater Treatment Works
- Olifantsylei Wastewater Treatment Works

#### 1.3 Drivers and attendants

- 1) The Contractor shall ensure that all drivers are properly licensed (Minimum Code EC License) with PrDP.
- 2) The Contractor shall carry out faithfully and efficiently and with due diligence the Lawful instructions of the Bulk Wastewater Manager.
- 3) The Contractor is, in addition, required to appoint an experienced and competent Supervisor to manage the transport and disposal of sludge to private farms or to any other site as indicated by the Bulk Wastewater Manager in terms of regulations and guidelines for the disposal of sludge to land.
- 4) The Contractor shall supply drivers with adequate protective clothing and shall ensure that these items are properly used.
- 5) Drivers must be medically fit. The cost of examinations will be for the account of the Contractor. JW retains the right to have drivers examined.
- 6) JW's toilet and washing facilities at the Works are available for use by the drivers.
- 7) Should drivers dump sludge on areas not authorized by the Bulk Wastewater Manager or at more than the allowable rates, the contractor shall immediately on instruction remove the sludge at his own cost to authorized areas.

## 1.4 Incompetent Workers

1)The Contractor shall at the request of the respective Bulk Wastewater Manager remove from the Contract any person employed by him, who may in the opinion of the Bulk Wastewater Manager be incompetent or misconduct himself, and such person shall not again be employed on the contract without the written consent of the Bulk Wastewater Manager.

## 1.5 Vehicles that do Not comply with Requirements





#### **SCOPE OF WORK**

- 1) During the period of the contract any vehicle which in the opinion of the respective Bulk Wastewater Manager is not capable of satisfactorily performing the duties prescribed owning to its mechanical condition or is in any way unsafe to operate shall be replaced immediately.
- 2) All vehicles must be tested for a Certificate of Fitness every six months during the period of the contract and proof of such testing may be required to be presented to the Bulk Wastewater Manager. Failure to produce such proof will be considered a breach of contract and Remedies for breach may be imposed.
- 3)At any time during the duration of this contract the Contractor may be called upon to Produce any one or all the following documents in respect of all vehicles and drivers:
  - I. Motor Carrier Certificate (amended to comply with this contract).
  - II. Letter from Insurance Company
  - III. Current Certificate of Fitness.
  - IV. Current Public Vehicle License
  - V. Driver's License.
  - VI. Certificate of good standing with the Workmen's Compensation Commissioner.
- 4) Failure to produce on request any one of the above documents within a reasonable period as determined by the Bulk Wastewater Manager will be considered a breach of contract and Remedies for Breach may be imposed.

#### 1.6 Scope of Work

This scope of work outlines the requirements for the collection, transportation, and disposal of sludge from Johannesburg Water's Northern and Southern Wastewater Treatment Works to private farms for beneficial reuse. The quantities indicated are **estimated averages** and are subject to variation based on daily sludge production at each facility. All operations shall be conducted by applicable environmental regulations, occupational health and safety requirements, and Johannesburg Water's operational standards.

## 1.6.1 Objective

The primary objective of this contract is to ensure the reliable, safe, and efficient transportation of dewatered sludge from designated wastewater treatment plants to approved private farms, in a manner that prevents environmental contamination, complies with regulatory standards, and ensures minimal disruption to plant operations.

# 1.6.2 Scope of Services

The service provider shall be responsible for the following tasks:

## 1.6.2.1 Collection and Loading

- Collect dewatered sludge from designated sludge drying beds or designated loading points at each treatment works.
- Provide all necessary loading equipment (e.g., front-end loaders, conveyors) if not available on-site, ensuring that loading is done without spillage or damage to plant infrastructure.





## **SCOPE OF WORK**

• Confirm sludge volumes at the point of loading and maintain accurate daily records.

# 1.6.2.2 Transportation

- Transport sludge from the wastewater treatment works to private farms approved by Johannesburg Water.
- Vehicles shall be suitable for sludge transport, leak-proof, and compliant with all road safety regulations.
- Ensure that sludge loads are covered during transit to prevent spillage, odour nuisance, and windblown material.
- Adhere to designated transportation routes to minimise community disruption and environmental risk.

# 1.6.2.3 Disposal

- Offload sludge at designated farm locations in accordance with the landowner's instructions and environmental best practices.
- Ensure no sludge is disposed of outside approved sites.
- Provide signed proof of delivery from each receiving farm for Johannesburg Water's records.

# 1.6.2.4 Minimum and Maximum Daily Volumes

The estimated daily sludge volumes and corresponding truck requirements are as follows:

#### **Northern Treatment Works:**

Plant	Minimum Volume (m³/day)	Maximum Volume (m³/day)	Estimated Trucks per Day
Northern Works	115	350	4-12
Driefontein Works	10	60	

## **Southern Treatment Works:**

Plant	Minimum Volume (m³/day)	Maximum Volume (m³/day)	Estimated Trucks per Day
Goudkoppies Works	40	120	
Ennerdale Works	30	60	7 – 9
Olifantsvlei Works	175	200	

Note: These figures are estimates and may vary depending on operational conditions and sludge production rates.

# 1.6.2.5 Vehicle Requirements

- All vehicles used under this contract shall be approved by Johannesburg Water prior to the commencement of work.
- Vehicles shall not be used for purposes other than those specified in this contract unless authorised in writing by Johannesburg Water.
- Vehicles must be well-maintained, free of leaks, and equipped with suitable containment systems to prevent environmental pollution.





## **SCOPE OF WORK**

# 1.6.2.6 Operational Requirements

- Provide sufficient number of trucks to meet daily sludge removal requirements, including contingency capacity during peak production.
- Ensure daily communication with Johannesburg Water plant supervisors to confirm volumes, schedules, and disposal locations.
- Maintain a log of all trips, including plant of origin, volume transported, date/time, truck registration, driver's name, and destination.
- Respond promptly to any operational issues, including breakdowns or spillage incidents, with corrective action and reporting.

# 1.6.3 Health, Safety, and Environmental Compliance

- Comply with the Occupational Health and Safety Act (Act No. 85 of 1993) and all relevant environmental legislation.
- Provide personal protective equipment (PPE) to all personnel.
- Train drivers and handlers in safe sludge handling and spill response procedures.
- Implement measures to prevent odour nuisance, vector attraction, and groundwater contamination.
- Immediately report any incidents, accidents, or non-compliances to Johannesburg Water.







# 15. Evaluation

The tender will be evaluated and adjudicated in terms of the Municipal Finance Management Act (MFMA), Preferential Procurement Policy Framework Act, 2000, relevant Supply Chain Management Policy of Johannesburg Water (JW) and applicable Regulations.

**Summary of Evaluation Stages:** 

STAGE 1: MANDATORY EVALUATION	STAGE 2: ADMINISTRATIVE EVALUATION	STAGE 3: FUNCTIONAL EVALUATION	STAGE 4: PREFERENCE EVALUATION
Tenderer to submit all mandatory requirements under this Stage. These are criterion scored as 'pass/fail' or 'yes/no' during the evaluation process. A "fail" or "no" will lead to the tenderer being disqualified and may not be considered for further evaluation or award.	Bidding Documents (MBD) that the tenderer's duly authorized representative must fully complete and sign and provide administrative documents such as director's and company's municipal statement or valid lease agreements which must be valid and submitted before tender award. Should the MBD authority to sign and	achieve a minimum qualifying score as stated in the tender document to proceed to next stage. Tenderers are required to submit the required	preference points system according to the award strategy. The Specific Goals for the tender will be stated in MBD 6.1. In MBD 6.1, the tenderer must indicate how many points they are claiming for each Specific Goal and must submit all the required supporting documentation for the points to be verified and awarded by JW. The BEC will evaluate the submitted supporting documentation and confirm Specific Goal points claimed by the tenderer. Specific







# 1. Stage 1: Mandatory Evaluation Criteria:

Tender briefing meeting.  The tenderer must submit proof of the mandatory documents for their offered trucks as they have offered in the pricing schedule of the tender document. The documentation must be submitted together with the tender Document.  Failure to do so shall render the tender liable for rejection on grounds of being non-complaint to the tendering conditions and will be disqualified.  The following documents are required for the sloper tipper offered:  a) Sloper Tipper Truck  • Proof of Certificate of Registration in Respect of Motor Vehicle in accordance with the National Road Traffic Act.  • Proof of valid Motor Vehicle Licence and Licence Disc in accordance with the National Road Traffic Act.  Note 1: Only sloper tipper trucks, accompanied by all required supporting documentation, will be considered in the evaluation process.  Note 2: The proof of a valid Certificate of Registration, valid Motor Vehicle Licence, and Licence Disc submitted must be in the name of the Tenderer or the name of the company from which the Tenderer will be leasing the truck.  Note 3: If the Tenderer intends to hire or lease the truck(s) from another
The tenderer must submit proof of the mandatory documents for their offered trucks as they have offered in the pricing schedule of the tender document. The documentation must be submitted together with the tender Document.  Failure to do so shall render the tender liable for rejection on grounds of being non-complaint to the tendering conditions and will be disqualified.  The following documents are required for the sloper tipper offered:  a) Sloper Tipper Truck  • Proof of Certificate of Registration in Respect of Motor Vehicle in accordance with the National Road Traffic Act.  • Proof of valid Motor Vehicle Licence and Licence Disc in accordance with the National Road Traffic Act.  Note 1: Only sloper tipper trucks, accompanied by all required supporting documentation, will be considered in the evaluation process.  Note 2: The proof of a valid Certificate of Registration, valid Motor Vehicle Licence, and Licence Disc submitted must be in the name of the Tenderer or the name of the company from which the Tenderer will be leasing the truck.  Yes  Yes
trucks as they have offered in the pricing schedule of the tender document. The documentation must be submitted together with the tender Document.  Failure to do so shall render the tender liable for rejection on grounds of being non-complaint to the tendering conditions and will be disqualified.  The following documents are required for the sloper tipper offered:  a) Sloper Tipper Truck  • Proof of Certificate of Registration in Respect of Motor Vehicle in accordance with the National Road Traffic Act.  • Proof of valid Motor Vehicle Licence and Licence Disc in accordance with the National Road Traffic Act.  Note 1: Only sloper tipper trucks, accompanied by all required supporting documentation, will be considered in the evaluation process.  Note 2: The proof of a valid Certificate of Registration, valid Motor Vehicle Licence, and Licence Disc submitted must be in the name of the Tenderer or the name of the company from which the Tenderer will be leasing the truck.  Note 3: If the Tenderer intends to hire or lease the truck(s) from another
service provider, the Tenderer must submit a letter of intent to hire from the lessor for the offered truck(s). This must be accompanied by all required documentation as specified above. The letter of intent must clearly confirm that the truck(s) will be available for use as required.  Note 4: If the trucks offered are owned by the Tenderer, the Tenderer must submit a confirmation letter on the company's letterhead, committing to provide the trucks upon the contract's commencement date.  Note 5: As Johannesburg Water permits tenderers to hire sloper tipper trucks from lessors to meet their capacity requirements, tenderers hiring trucks are required to submit an alternate letter of intent and relevant



Johannesburg Water

**EVALUATION** 

3	Signed Pricing Schedule and completed rates for items offered	Yes	
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NB: Bidders that fail to comply with the above mandatory requirement may not be considered further for evaluation.

# 2. Stage 2: Administrative Evaluation Criteria:

NO.	REFERENCE TO	DESCRIPTION	REQUIREMENT	
NO.	TENDER DOCUMENT	DECORAL MOR	REGOINEMENT	
1.	Annexure	Certificate of Authority or Board Resolution Letter granting authority to sign	Complete and submit	
2.	MBD 1	Invitation to Bid Form	Completed and signed MBD 1 Form.	
3.	CSD	Central Supplier Database Registration	Provide proof of CSD registration. Complete MAAA number on cover page or copy of CSD report.	
4	MBD 3.1	Pricing Schedule – Firm Prices (Purchases)	Completed MBD 3.1 Form.	
5.	MBD 4	Declaration of Interest	Completed and signed MBD 4 Form.	
6.	MBD 5	Declaration of Procurement Above R10m (All Applicable Taxes Included)	Completed and signed MBD 5 Form.	
7.	MBD 6.1	Preference Points Claim in Terms of The Preferential Procurement Regulations 2022	Completed and signed MBD 6.1 Form.	
9.	MBD 8	Declaration of Bidder's Past Supply Chain Management Practices	Completed and signed MBD 8 Form.	
10.	MBD 9.	Certificate of Independent Bid Determination	Completed and signed MBD 9 Form.	
11.	Annexure – Proof of Specific Goals	Refer to documents listed in 4.3 verification documents to be submitted with the tender document	Submit applicable documentation with the tender submission – If not submitted with the tender document points for Specific Goals won't be allocated.	
12.	Annexure	Municipal Rates and Taxes for the Tenderer - Current municipal rates for the entity not in arrears by more than 90 days. If leasing/renting, submitted copy of valid lease agreement where premises are rented OR Confirmation that suitable arrangements are in place for arrear municipal obligations with your local municipality OR Current municipal rates which is not older than 90 days or valid lease agreement with affidavit from owner of	Submit applicable documentation with the tender submission	





a world class African city EVALUATION

		property in cases stated in Proof of Good Standing with regards to Municipal Accounts document	
13.	Annexure	Municipal Rates and Taxes - Current municipal rates for the directors of the entity not in arrears by than 90 days. If leasing/renting, submitted copy of valid lease agreement where premises are rented OR Confirmation that suitable arrangements are in place for arrear municipal obligations with your local municipality OR Current municipal rates which is not older than 90 days or valid lease agreement with affidavit from owner of property in cases stated in Proof of Good Standing with regards to Municipal Accounts document.	Submit applicable documentation with the tender submission
14.	Annexure	Occupational Health and Safety Declaration form – if applicable	Occupational Health and Safety Declaration form – if applicable
15.	Annexure	Joint Venture, Consortium, or equivalent agreement– if applicable.	Joint Venture, Consortium, or equivalent agreement signed showing percentage ownership of parties – if applicable.

Tenderers will be notified of any omitted, outstanding, missing and or incomplete administrative documents and will be offered a period of 3 days to complete or submit those pages i.e., Municipal Bidding Documents (MBD), authority to sign and other administrative documents that require completion and signatures. These exclude documentation on functionality, price and preference points for specific goals, and MBD 6.2 Local Production and Content.

Tenders that are received contrary to the above requirements will be disqualified after three (3) days period has lapsed.

If locality is a specific goal in MBD6.1 – the requested documentation may not be used to allocate points for specific goals.







# **EVALUATION**

# 3. Stage 3 Functionality Evaluation Criteria:

The total Weighting is 100 and the Minimum Qualifying Score is 60. The following aspects will be considered during the functional evaluation:

	TENDERER'S EXPERIENCE AND EXPERIENCE OF KEY PERSONNEL						
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE		
	TENDERER'S EXPERIENCE  The Tenderer (Company) is required to have experience in the transportation of sewage sludge or any biosolids where the services were completed successfully.	The tenderer must provide relevant documentation (i.e. Contactable reference letters) as proof where transportation of sewage sludge or any biosolids was carried out successfully.  This document must be completed by the referee and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with the functional criteria requirements. A separate form must be completed for each reference as required in the evaluation criteria. The Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.	Experience in the transportation of sewage sludge or any biosolids Less than 1 year 1 year and more but less than 3 years 3 years and more but less than 5 years 5 years or more	50	0 30 40 50		
	Driver/Operator experience& Licence The tender driver must have at least a minimum of 5 years' experience driving vehicles above 16 000kg and valid EC (code 14) drivers' licence with PrDP	The tenderer must provide a Curriculum Vitae (CV) for each driver assigned to the trucks. Each CV must be accompanied by a valid EC (Code 14) driver's licence with a PrDP. The number of CVs submitted must match the number of trucks offered.	Less than 5 years 5 years and more but less than 10 years 10 years and more but less than 15 years 15 years or more	50	0 30 40 50		
MINIMUM QUALIFYING SCORE					0		
TOTAL				10	0		







#### **EVALUATION**

Note: It is the responsibility of the Tenderer to ensure that their listed referees are contactable. Johannesburg Water will conduct reference checks with the referees of the recommended Tenderer. Each referee will be given five (5) working days from the date of request by Johannesburg Water to confirm, in writing, the information provided in the reference letter. Failure by the referee to provide confirmation within the stipulated timeframe will result in the Tenderer not being awarded points for contactable references

It is important to apply the averaging method during evaluation to ensure fairness, transparency, and consistency across all bidders. Each truck offered in the tender must have a qualified and experienced driver, and averaging prevents bidders from relying on a single highly experienced driver to overshadow less experienced ones. This approach ensures that the overall competency of the entire team is considered, which is critical when transporting sewage sludge or biosolids, given the safety, environmental, and regulatory risks involved. If one driver lacks sufficient experience, the risk of accidents, spillage, or non-compliance increases, and averaging helps mitigate this by measuring the collective competence of all drivers submitted. Furthermore, applying a uniform scoring system strengthens compliance with the MFMA and Supply Chain Management prescripts, making the evaluation process defensible in the event of an appeal or audit. This method also encourages bidders to field a consistently strong team rather than relying on one "star driver," thereby improving industry standards and service delivery. Overall, averaging provides a fair, objective, and justifiable basis for scoring, while protecting the integrity of the evaluation process.

Here's how the evaluation criteria you provided would be applied step by step, with an example of averaging scores to clarify the process

#### The Criteria

# **Driver/Operator Experience & Licence** (50 points)

- Less than 5 years → **0 points**
- 5–9 years → **30 points**
- 10–14 years → **40 points**
- 15+ years → **50 points**

assigned to the tenderer's fleet must be scored individually, and then the average score of all drivers is taken as the final score for this criterion driver

# **Example Scenario**







## **EVALUATION**

Suppose a tenderer offers 3 trucks; therefore, they must submit 3 driver CVs with their licences.

Driver 1: 7 years' experience → 30 points

Driver 2: 12 years' experience → 40 points

Driver 3: 18 years' experience → 50 points

# The first step

Allocate points to each driver:

- Driver 1 = 30
- Driver 2 = 40
- Driver 3 = 50

Add the points together:

- 1. Divide by the number of drivers (3):
  - 120÷3=40
- 2. The average score = 40(out of 50).
- 3. The scores will be allocated as follows:
- 4. a. 30-39 points will score 30
- 5. b. 40-49 points will score 40
- 6. c. 50 and above will score 50

.



# **EVALUATION**



## 4. Stage 4 Price and Preference Points Evaluation:

## 4.1 Pricing

The following aspects will be considered in the financial offer:

- a) Costing for all items as described in the Pricing Schedule and applicable Strategies Review of financial offer and discrepancies between total and calculations.
- b) Identify any parameters that may have a bearing on the financial offer, e.g., contract period, price escalations or adjustments required and life cycle costs.
- c) The tender will be evaluated on the 80/20 preference system.

Refer to Pricing Schedule to complete the pricing.

# 4.2 The maximum preference points for this bid are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
TOTAL POINTS FOR PRICE AND SPECIFIC GOALS	100

# **Specific Goals**

In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations 2022, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender.

Specific goals may include contracting with persons, or categories of persons, historically disadvantaged by unfair discrimination on the basis of race, gender or disability.

#### Race:

- I. Ownership by black people
- II. Black Designated Group:





#### **EVALUATION**

Ownership by black people that are unemployed

Ownership by black people who are youth

Ownership by black people living in rural or underdeveloped areas or townships

Ownership by black people with disabilities

Ownership by black people who are military veterans

Cooperative owned by black people

#### Gender:

III. Persons, or categories of persons, historically disadvantaged by unfair discrimination on the basis of gender are women. Ownership by persons that are classified as female or women according to the Department of Home Affairs of South African.

#### **Disability:**

IV. Persons, or categories of persons, historically disadvantaged by unfair discrimination on the basis of disability are disabled persons.

Reconstruction and Development Programme (RDP) objectives as published in Government Gazette No. 16085 dated 23 November 1994 i.e.,

#### Local Manufacture:

I. Promotion of procurement of locally manufactured goods in South Africa to promote job creation in light of the high unemployment rate in South Africa which has a greater impact previously disadvantaged individuals and black youth.

# Locality:

- I. Promotion of procurement from local business in the geographical areas that JW operate in. This is also directed at creating employment in the areas JW operate in. The BSC may allocate points as follows:
  - Promotion of enterprises located in the Gauteng Province
  - Promotion of enterprises located in a specific region within COJ (the 7 regions. A to G)
  - Promotion of enterprises located in the City of Johannesburg municipality
  - Promotion of enterprises located rural or underdeveloped areas or townships.

## QSE

I. Promotion of procurement from QSE's that are black owned.

#### EME:

I. Promotion of procurement from EME's that are black own.

#### SUB-CONTRACTING:

Promotion of sub-contracting to a company owned by Historically Disadvantaged Individuals (HDI) individuals.





# a world class African city EVALUATION JOINT VENTURE, CONSORTIUM OR EQUIVALENT:

For Joint Venture Agreements, Consortiums or equivalent, the agreement must show percentages of ownership and work to be completed by each party. This agreement must form part of the tender submission.

To determine the Joint Venture, Consortium or equivalent score for specific goals, JW will look at the consolidated BBBEE certificate to determine the points for specific goals that will be awarded to the tenderer. If a consolidated BBBEE certificate is not submitted, the parties to the joint venture, consortium or equivalent must submit their individual BBBEE certificates issued by a SANAS accredited verification agency or the documents listed below on 4.4 and the joint venture, consortium or equivalent agreement in order for JW to determine the proportional points for specific goals.

## Documentation to be provided:

- JV, Consortium, or equivalent agreement
- Consolidated BBBEE certificate issued by an SANAS accredited verification agency.
   Certificate must be valid
- JV, Consortium, or equivalent agreement to contain percentage ownership which will be used to determine the proportional points for specific goals.

# **Table Specific Goals 1:**

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)
SMME (An EME or QSE) 51% or more Black owned	4
Business owned by 51% or more-Women	6
Business owned by 51% or more-Black Youth	6
Businesses located within the boundaries of a region in COJ, COJ municipality	4
TOTAL	20





## **EVALUATION**

# 4.3 The following verification documents must be submitted with the tender document:

SPECIFIC GOALS – ANY ONE OR A COMBINATION OF ANY	MEANS OF VERIFICATION THAT MAY BE SELECTED OR A COMBINATION THEREOF
Business owned by 51% or more – Black Youth	Valid BBBEE Certificate issued by SANAS accredited verification agency or Affidavit sworn under oath.
Business owned by 51% or more- Women	<ul> <li>Valid BBBEE Certificate issued by SANAS accredited verification agency or DTI/CIPC BBBEE Certificate for Exempted Micro Enterprises or Affidavit sworn under oath, OR</li> <li>CIPC registration document showing percentage of ownership and share certificate where applicable</li> </ul>
Businesses located within the boundaries of a region in COJ, COJ municipality.	<ul> <li>Proof of municipal account / valid lease agreement, letter from the landlord/Ward Council confirming the business address.</li> </ul>
SMME (An EME or QSE) owned by 51% or more - Black People	Valid BBBEE Certificate issued by SANAS accredited verification agency or DTI /CIPC BBBEE Certificate for Exempted Micro Enterprises or Affidavit sworn under oath.

Subcontracting with companies at least 51% owned by Historicall Disadvantaged Individual (HDI) groups mentioned above.

- Draft subcontracting agreement
- Valid BBBEE Certificate issued by SANAS accredited verification agency or DTI / CIPC BBBEE Certificate for Exempted Micro Enterprises or Affidavit sworn under oath.

Joint Venture (JV), Consortium or Equivalent

- JV, Consortium or Equivalent agreement must indicate percentage ownership of each party, and
- Valid BBBEE Certificate issued by SANAS accredited verification agency or DTI /CIPC BBBEE Certificate for Exempted Micro Enterprises or Affidavit sworn under oath, and
- CIPC registration document (if sub-contracting to a 51% or more blacked owned Cooperative).

# 4.4 The following are the requirements for the Sworn Affidavit it terms of the BBBEE Sector Codes of Good Practise:

Affidavit Prescribed Formats	Category	Financial Threshold
Generic Enterprises		,
	BO QSE	Between R10m and R50m
	BO EME	Less than R10m
Sector Specific Enterprises	,	,
	BO QSE	Between R10m and R50m
	BO EME	Less than R10m
Construction Sector Code		
	EME Contractor	Less than R3m
	BO EME BEP	Less than R1.8m
Financial Sector Code		
	BO QSE	Between R10m and R50m
	BO EME	Less than R10m





# a world class African city EVALUATION

Information Communication Te	echnology Sector Co	ode (ICT)
	BO QSE	Between R10m and R50m
	BO EME	Less than R10m
Marketing, Advertising & Comr	nunication Sector C	ode (MAC)
> Public Relations	BO QSE	Between R5m and R10m
> Marketing, Advertising &	BO EME	Less than R5m
Communications		
Property Sector Code		
> Service-based	BO QSE	Between R5m and R10m
	EME	Less than R5m
> Agency-based	BO QSE	Between R2.5m and R35m
> Asset-based	EME	Less than R2.5m
7 Addet Sadda	BO QSE	Between R80m and R400m
Tourism Sector Code		
	BO QSE	Between R5m and R45m
	BO EME	Less than R5m
Specialised Enterprises	•	
	BO QSE	Between R10m and R50m
	BO EME	Less than R10m

# 4.5 Requirements for a valid BBBEE Certificate

- a) Copy of a certified valid BBBEE certificate (Only Valid BBBEE certificate must be accredited by SANAS) or valid Sworn Affidavit issued by the DTIC or the CIPC or in a similar format complying with commissioner of oath Act.
- b) Bidders who do NOT qualify as EME's and QSE's as outlined in 4.4, must submit B-BBEE verification certificates that are issued by an Agency accredited by SANAS.
- c) Bidders who fail to submit a certified copy of their valid B-BBEE certificate or valid sworn affidavit or valid DTI / CIPC B-BBEE certificate will score zero points for specific goals.

Valid Sworn Affidavits or certified copies of B-BBEE Certificate must comply with the requirements outlined in the Justices of the Peace and Commissioners of Oaths Act, no 16 of 1963 and its Regulations promulgated in Government Notice GNR 1258 of 21 July 1972 Justices of the Peace and Commissioners of Oaths Act, No. 16 of 1963. i.e.

- (i) The deponent shall sign the declaration in the presence of the commissioner of oaths (COA).
- (ii) Below the deponent's signature the COA shall certify that the deponent has acknowledged that he knows and understands the contents of the declaration and the COA shall state the manner, place, and date of taking the declaration.
- (iii) The COA shall sign the declaration and print his full name and business address below his signature; and state his designation and the area for which he holds his appointment, or the office held by him if he holds his appointment ex officio.
- (iv) Copy of certified copies will not be accepted.

N.B. A tenderer failing to submit proof of specific goals claimed as per 4.3 will not be disqualified but will be allocated zero points for specific goals and will be allocated points for pricing.

# 4.6 Award and Allocation Strategy:

AWARD STRATEGY	The award strategy is to award the contract to the highest scoring
	tenderer in terms of price and specific goals, in alignment with JW's





a world class African city EVALUATION

	truck capacity requirements.
ALLOCATION STRATEGY	The Sloper tipper trucks offered by each tenderer will be allocated to the highest-ranked tenderer for each item. If the number of trucks offered is not enough to meet Johannesburg Water's (JW) full capacity and technical needs for a specific line item, the following steps will apply:  1. The next highest-ranked tenderer with trucks that meet the technical requirements will be awarded to cover the remaining capacity.  2. If there is still a shortfall, trucks from the next highest-ranked tenderer that meet the technical requirements will be allocated. This process will continue in order of ranking until all capacity needs are met.
	To ensure value for money and cost-effectiveness, JW may negotiate the prices of service providers recommended for approval for each item. These talks will be based on market-related pricing. JW may also standardize the rates of bidders awarded the same capacity, using its benchmarked rates to assess cost-effectiveness. The final contract rates will not be higher than the rates originally submitted by the tenderer.



#### **PRICING DATA**



# 16. Pricing Instructions

# **General Pricing Instructions:**

- a) All price(s) shall exclude Value Added Tax at the standard rate as gazetted from time to time by the Minister of Finance in terms of the Value Added Tax Act 89 of 1991 as amended. VAT will be shown separately on the Pricing Schedule/s and included in the total.
- b) All price(s) tendered shall include the cost of all insurances, services, labour, equipment, materials, etc. and be the net price after all unconditional discounts and settlement discount have been deducted. The net price/s shall be without any extra or additional charges to JW whatsoever.
- c) A Firm price tender will be required for the duration of the contract, for tender evaluation and budgeting purposes.
- d) Should the contract be based on firm prices, no adjustment of prices will be made for the duration of the contract.
- e) Should the contract be based on non-firm prices, price adjustment request including supporting documentation must be sent to JW at least 30 days before agreed adjustment interval. The agreed formula in the Pricing Adjustment formula will form the basis of the negotiation.
- f) Unconditional discounts will be taken into account for evaluation purposes but conditional discounts will not be taken into account for evaluation purposes.
- g) Estimated quantities provided in the Scope of Work are purely for evaluation purposes only and does not provide any indication of the required quantities of product/s for the duration of the contract by JW and does not provide any guarantee to the contractor whatsoever in terms of quantities required. Pricing for any additional work that may arise on the project, outside of the defined Scope of Works, will be as per price in the pricing schedule of additional work, but written approval will still be required before any additional work is carried out by the Service Provider.
- h) All pricing quoted in the Pricing Schedule/s shall be in South African Rand (ZAR) and rounded off to two decimals.
- i) The Pricing Schedule has to be completed in black ink and the Tenderer is referred to the Acknowledgement of Bid Conditions in regard to arithmetical errors and alterations, and the handling thereof.
- j) Time based fees shall be calculated by multiplying the provided unit cost rate with the actual time spent by the applicable personnel in rendering the service required by the Employer.
- k) Lump sum prices or rates shall not be adjustable with regard to changes in the law for the duration of the Contract Period of Performance.
- I) The Service Provider shall pay all taxes, duties, fees, levies and other impositions without separate reimbursement by the Employer.
- m) All activities or tasks shall be invoiced on a monthly basis, based on work successfully completed and accepted by the Employer.
- n) Any changes to the pricing schedule on the issued tender document will result in elimination, the Tenderer can however indicate in the qualifications any alternatives that they might want to offer.
- o) For non-firm prices, index/indices that will be applicable for the bid and anniversary dates thereof will be provided in the tender document and must be used by the bidder to calculate their bid to enable JW to compare like for like. The tenderer must apply at least one month before the interval date as stated in the tender document by sending a Request for Pricing adjustment together with all the supporting documentation and source data to the JW representative. The Request for Price adjustment is a request and may be negotiated with the bidder by JW.
- p) Pricing in full for rates-based rates contract, the tenderer must price for year 1, year 2 and year 3.

#### **Alterations**

# The evaluation on price alteration will be conducted as follows:

Where the tender award strategy is to evaluate and award per item or category, the following must apply:

(i) If there is an alteration on the rate but no alteration on the total for the item or category,



#### PRICING DATA



the bidder will not be disqualified

(ii) If there is an alteration on the total for the item/s without authentication, bidders will only be disqualified for alteration per item or category.

Where the tender award strategy is to evaluate and award total bid offer, the following must apply:

- (i) If there is an alteration on the rate, total for the line item, sub-total/ sum brought/carried forward for the section but no alteration on the total bid offer, the bidder will not be disqualified.
- (ii) If there is an alteration on the total bid offer on form of offer then the amount in words must be considered or vice-versa.
- (iii) If there is an unauthenticated alteration on the total bid offer and the amount in words is not authenticated, the bidders will be disqualified for the entire tender.

Where the tender pricing schedule or bill of quantities is requesting rates/price from bidder/s without providing a total, the following will apply:

(i) If there is an unauthenticated alteration on the unit rate/price the bidder must be disqualified.

#### PROJECT SPECIFIC PRICING INSTRUCTIONS:

Having examined the Tender documents], we, the undersigned, tender for **Transportation of Sewage Sludge** on as and when required basis for a period of thirty-six (36) months as specified in conformity with the said Tender documents and as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.

# Details of my / our offer are / are as follows:

We undertake, if our Tender is accepted, execute the contract in accordance with the requirements as specified.

We agree to abide by this Tender for a period of ninety (90) days from the date fixed for Tender opening, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that Johannesburg Water is not bound to accept the lowest or any tender it may receive, and that the contract may be awarded in whole or in part and to more than one tenderer.

Should my/our tender be successful, it be understood that a contract will come into existence for an as and when required basis for a period of thirty-six (36) months that will commence from the date indicated in the letter of acceptance.





# PRICING DATA PRICING SCHEDULE

NB: ANY AND ALL ALTERATIONS TO THE PRICING SCHEDULE MUST BE SIGNED IN FULL OR INITIALLED NEXT TO THE ALTERATION BY THE TENDERER'S AUTHORISED SIGNATORY

BID DOCUMENTS MUST BE COMPLETED USING NON-ERASABLE BLACK INK.
BIDS THAT ARE RECEIVED CONTRARY TO THIS REQUIREMENT WILL BE DISQUALIFIED

I/We, the undersigned, hereby acknowledge myself/ourselves fully conversant with the details and conditions set out in the General Conditions of Contract, Special Conditions and Technical Specifications attached and hereby agree to provide the services listed below and provide results and certificates to JW in accordance therewith.

# **Please Note:**

1. Tender prices must include all transport, fuel, labour, Insurances, OHS compliance, any equipment etc. required to successfully execute the contract in its entirety, and prices must exclude VAT.

#### Note:-

- a) Rates quoted must include the services of an operator, fuel/diesel, oil, stores, transport, operational assistants and all other expenses incidental to the hire and operation of the plant, equipment and work to be performed
- b) Tenderers are free to tender for only the Southern Works or the Northern Works or for both options. JW reserves the right to adjudicate the tender to its' best advantage.
- c) Please note that these rates tendered are for the hire of sloper tipper trucks anywhere within the geographical limits of the City of Johannesburg as well as the immediate surrounding areas, to 60km from the supply source.





# 17. Pricing Schedule

The Service Provider shall only claim rates / fees payable in terms of the pricing schedule below:

# **PRICING SCHEDULE**

# NUMBER OF TIPPER TRUCKS OFFERED FOR THE EXECUTION OF THIS CONTRACT

Item No	Description	NORTHERN WORKS Number Tipper Trucks Offered	SOUTHERN WORKS Number Tipper Trucks Offered
YEAR 1			
1	30m³ capacity		
YEAR 2			
2	30m³ capacity		
YEAR 3			
3	30m³ capacity		





# 7.4.2 PRICE SCHEDULE

Schedule A: Year 1



	•	TRANSPOR	TATION OF SET	WAGE SLUDG	E	
			YEAR 1			
KILOMETERS- ONE WAY		CUBIC ME			RATE PER CUBIC METER FOR THE NORTHERN WORKS	
	Estimated Quantity (m³)	Rate	Amount	Estimated Quantity (m³)	Rate	Amount
From 0 to 10	800	R	R	1200	R	R
> 10 to 20	800	R	R	1200	R	R
> 20 to 25	800	R	R	1200	R	R
> 25 to 30	800	R	R	1200	R	R
> 30 to 35	800	R	R	1200	R	R
> 35 to 40	800	R	R	1200	R	R
> 40 to 45	800	R	R	1200	R	R
> 45 to 50	800	R	R	1200	R	R
> 50 to 55	800	R	R	1200	R	R
> 55 to 60	800	R	R	1200	R	R
> 60 to 65	800	R	R	1200	R	R
> 65 to 70	800	R	R	1200	R	R
> 70 to 75	800	R	R	1200	R	R
> 75 to 80	800	R	R	1200	R	R
> 80 to 85	800	R	R	1200	R	R
> 85 to 90	800	R	R	1200	R	R
> 90 to 95	800	R	R	1200	R	R
> 95 to 100	800	R	R	1200	R	R
On-site operations *	400	R /8hr	R	400	R /8hr	R
Year 1 Total Amounts	R			R		

<sup>\*</sup> In addition to the above pricing, tenderers are required to indicate a rate per Tipper truck for on-site operations for the filling of drying beds up to 800m from loading point.



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		<b>TRANSPORT</b>	ATION OF SEV	VAGE SLUDO	SE .	
r			YEAR 2			
KILOMETERS- ONE WAY					E PER CUBIC HE NORTHER	
	Estimated Quantity (m³)	Rate	Amount	Estimated Quantity (m³)	Rate	Amount
From 0 to 10	850	R	R	1300	R	R
> 10 to 20	850	R	R	1300	R	R
> 20 to 25	850	R	R	1300	R	R
> 25 to 30	850	R	R	1300	R	R
> 30 to 35	850	R	R	1300	R	R
> 35 to 40	850	R	R	1300	R	R
> 40 to 45	850	R	R	1300	R	R
> 45 to 50	850	R	R	1300	R	R
> 50 to 55	850	R	R	1300	R	R
> 55 to 60	850	R	R	1300	R	R
> 60 to 65	850	R	R	1300	R	R
> 65 to 70	850	R	R	1300	R	R
> 70 to 75	850	R	R	1300	R	R
> 75 to 80	850	R	R	1300	R	R
> 80 to 85	850	R	R	1300	R	R
> 85 to 90	850	R	R	1300	R	R
> 90 to 95	850	R	R	1300	R	R
> 95 to 100	850	R	R	1300	R	R
On-site operations *	300	R /8hr	R	500	R /8hr	R
Year 2 Total Amounts	R			R		

<sup>\*</sup> In addition to the above pricing, tenderers are required to indicate a rate per Tipper truck for on-site operations for the filling of drying beds up to 800m from loading point.



a world class African city Schedule C: Year 3



	Т	RANSPORTA		WAGE SLUDO	GE		
			YEAR 3				
KILOMETERS- ONE WAY		RATE PER CUBIC METER FOR <b>THE SOUTHERN WORKS</b>			RATE PER CUBIC METER FOR THE NORTHERN WORKS		
	Estimated Quantity (m³)	Rate	Amount	Estimated Quantity (m³)	Rate	Amount	
From 0 to 10	900	R	R	1350	R	R	
> 10 to 20	900	R	R	1350	R	R	
> 20 to 25	900	R	R	1350	R	R	
> 25 to 30	900	R	R	1350	R	R	
> 30 to 35	900	R	R	1350	R	R	
> 35 to 40	900	R	R	1350	R	R	
> 40 to 45	900	R	R	1350	R	R	
> 45 to 50	900	R	R	1350	R	R	
> 50 to 55	900	R	R	1350	R	R	
> 55 to 60	900	R	R	1350	R	R	
> 60 to 65	900	R	R	1350	R	R	
> 65 to 70	900	R	R	1350	R	R	
> 70 to 75	900	R	R	1350	R	R	
> 75 to 80	900	R	R	1350	R	R	
> 80 to 85	900	R	R	1350	R	R	
> 85 to 90	900	R	R	1350	R	R	
> 90 to 95	900	R	R	1350	R	R	
> 95 to 100	900	R	R	1350	R	R	
On-site operations *	500	R /8hr	R	600	R /8hr	R	
Year 3 Total Amounts	R			R			

<sup>\*</sup> In addition to the above pricing, tenderers are required to indicate a rate per Tipper truck for on-site operations for the filling of drying beds up to 800m from loading point.

SUMMARY S	CHEDULE - TRANSPORTATION	OF SEWAGE SLUDGE
Total Amounts	SOUTHERN WORKS	NORTHERN WORKS
Year 1	R	R





Year 2	R	R
Year 3	R	R
Year 1, Year 2, Year 3	R	R
15% VAT	R	R
TOTAL	R	R

\*All prices MUST include any other costs incurred to render the service. Additional charges post acceptance cannot be submitted as these will be rejected. All rates must exclude VAT.

NB: Failure to complete and sign this form in full and authenticate alterations with a full signature or initial will result in the elimination of the tender.

# **CONTRACT PRICE**

This is a firm tender.

Failure to adhere to this requirement will prejudice your tender

SIGNATURE(S)OF AUTHORIZED PERSON
NAME OF BIDDER
NAME OF AUTHORIZED PERSON IN BLOCK LETTERES
BID NUMBER:





I, the undersigned being duly authorised to do so, hereby furnish a reference to Johannesburg Water relative



# **CONTACTABLE REFERENCE**

To Johannesburg Water (SOC) Ltd

to the TRANSPORTATION OF SEWAGE SLUDGE
Name of Tenderer:
Description of Goods / Services provided:
Duration: Year-Month-Day when the Goods / Services were provided
Start date (Year- Month -Day) when the above was provided:
End date (Year- Month -Day) when the above was provided:
Name of authorised person:
Signature: Date
Telephone/Mobile:
Email:
Completed on behalf (Name of Client)
<b>NB:</b> This document must be completed by the referee / client and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with the functional criteria requirements as stated on this template. A separate form must be completed for each reference as required in the evaluation criteria. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.
in any future government tender.



#### **CONTACTABLE REFERENCE**



## **CONTACTABLE REFERENCE**

To Johannesburg Water (SOC) Ltd

I, the undersigned being duly authorised to do so, hereby furnish a reference to Johannesburg Water relative to the  ${\bf TRANSPORTATION}$   ${\bf OF}$   ${\bf SEWAGE}$   ${\bf SLUDGE}$ 

Name of Tenderer:
Description of Goods / Services provided:
Duration: Year-Month-Day when the Goods / Services were provided
Start date (Year- Month -Day) when the above was provided:
End date (Year- Month -Day) when the above was provided:
Name of authorised person:
Signature: Date
Telephone/Mobile:
Email:
Completed on behalf (Name of Client)

**NB:** This document must be completed by the referee / client and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with the functional criteria requirements as stated on this template. A separate form must be completed for each reference as required in the evaluation criteria. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.



#### **CONTACTABLE REFERENCE**



#### **CONTACTABLE REFERENCE**

To Johannesburg Water (SOC) Ltd

I, the undersigned being duly authorised to do so, hereby furnish a reference to Johannesburg Water relative to the **TRANSPORTATION OF SEWAGE SLUDGE** 

Name of Tenderer:
Description of Goods / Services provided:
Duration: Year-Month-Day when the Goods / Services were provided
Start date (Year- Month -Day) when the above was provided:
End date (Year- Month -Day) when the above was provided:
Name of authorised person:
Signature: Date
Telephone/Mobile:
Email:
Completed on behalf (Name of Client)

**NB:** This document must be completed by the referee / client and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with the functional criteria requirements as stated on this template. A separate form must be completed for each reference as required in the evaluation criteria. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.



#### **CONTACTABLE REFERENCE**



#### **CONTACTABLE REFERENCE**

To Johannesburg Water (SOC) Ltd

I, the undersigned being duly authorised to do so, hereby furnish a reference to Johannesburg Water relative to the **TRANSPORTATION OF SEWAGE SLUDGE** 

Name of Tenderer:
Description of Goods / Services provided:
Duration: Year-Month-Day when the Goods / Services were provided
Start date (Year- Month -Day) when the above was provided:
End date (Year- Month -Day) when the above was provided:
Name of authorised person:
Signature: Date
Telephone/Mobile:
Email:
Completed on behalf (Name of Client)

**NB:** This document must be completed by the referee / client and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with the functional criteria requirements as stated on this template. A separate form must be completed for each reference as required in the evaluation criteria. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.



# **Curriculum Vitae of Key Personnel**

Provide separate forms for each key personnel as per the position listed in the form: **Driver/Operator** 

Curriculum Vitae		
Name:		Date of birth:
Profession (Where	Nationality:	
Qualifications (Wh	ere Applicable):	·
Name of Employer	(firm):	
Current position:		Total Months Relevant Experience:
Employment Reco	rd:	
Evnerience Beerr	d Dortinget to Doguirod	oon doo.
START DATE dd month year	End DATE dd month year	ROLE WHICH PROVES RELEVANT EXPERIENCE
	ertify that, to the best of n alifications and my exper	ny knowledge and belief, this data correctly lence.
Signature of person i	named in the schedule	 Date



# COMPLIANCE CHECKLIST SHEET FOR DOCUMENTATION OF SLOPER TIPPER TRUCK OFFERED

Name of						
Tenderer						
	Tender No. Transportation of Sewage Sludge					
Offered SI	oper Tipper Truck Documenta		<del>,</del>	<b>,</b>		
Item No.	Description of offered Sloper Tipper Truck	Copy of Registration Certificate (Yes/No)	Roadworthy Certificate Expiry Date	Insurance (Yes/No)		

**Note:** The tenderer must complete the above for each plant type. This checklist will also be used by the evaluators when conducting the mandatory evaluation.



COMPLIANCE CHECKLIST SHEET FOR PRESENTATION OF SLOPER TIPPER TRUCK

Name of Tenderer					
			COMPLIANT		
Item	Description	Number of Trucks Offered	Yes	No	Comment
1	Sloper Tipper Truck				
2	The load body shall be minimum capacity of 30m <sup>3</sup>				
3	The load body shall be a large triaxle unit equipped with a tailgate, which shall automatically open and close with the raising and lowering of the body				



# COMPLIANCE CHECKLIST SHEET FOR TENDERER'S KEY STAFF

lame of Tenderer				
Name	Surname	Valid License with PrDP	Medical Certificate Expiry date	Does the key personnel have the required minimum experience of 5 years as a driver or operator
				_



# JOHANNESBURG WATER (SOC) LIMITED BID SPECIFICATION COMMITTEE

# **TECHNICAL DATA SHEET**

Name of Tenderer	
Malas of Olaman Trailing	
Make of Sloper Trailer	
Year of Manufacture	
Capacity	
•	

<sup>\*</sup>Minimum capacity of the Sloper Trailer must be minimum 30m3





# 18. Special Conditions: 8.SPECIAL CONDITIONS OF CONTRACT

GENERAL:		tion of the tenderer is drawn to the fact that General Conditions of apply, where applicable, to this contract.
1. DEFINITIONS:	1.1	That "Johannesburg Water (SOC) Ltd" shall herein after be referred to as "JW".
	1.2	The "Managing Director" shall mean the Managing Director: Johannesburg Water (SOC) Ltd or his authorised representative.
	1.3	"Vat" shall mean Value Added Tax in terms of the Value Added Tax Act 89 of 91 as amended.
	1.4	"Bulk Wastewater Manager" shall mean the Bulk Wastewater Manager: Johannesburg Water (SOC) Ltd or his authorised representative.
	1.5	"JW Evaluation Team" shall be comprised of representatives from JW Operations and Supply Chain Management Unit.
2. PRICE:	2.1	All prices shall exclude Value Added Tax at the standard rate as gazetted from time to time by the Minister of Finance in terms of the Value Added Tax Act 89 of 91 as amended.
	2.2	All alterations must be authenticated with a signature or initialled by the authorised signatory. Failure to comply with this requirement will render the tender liable for rejection on grounds of being incomplete.
	2.3	All price(s) tendered shall include the cost of all insurances, OHS compliance, services, labour, equipment, fuel, materials, etc. and be the nett price after all discounts and settlement discount have been deducted. The nett price/s shall be without any extra or additional charges to JW whatsoever.
	2.4	A firm price tender will be preferred for the duration of the contract.
3.SURETY BOND:	3.1	No surety bond shall be required in terms of this contract.
4.COMPLIANCE WITH LEGISLATION:	4.1	The Contractor shall comply with all Municipal By-laws, and any other Laws, Regulations or Ordinances and shall give all notices and pay all fees required by the provisions of such By-laws and Regulations Specified therein.
	4.2	The Contractor will be responsible for the transport and offloading

of sludge in terms of the relevant Works permit/licence and the





National Guidelines for the Permissible Utilizations and Disposal of Sewage Sludge (TT85/97, TT 154/02 & TT 262/06), as amended from time to time.

- 4.3 Instructions regarding application rates, where to dump, and tipping distances will be given to the contractor in terms of Cl. 5.2, and the contractor must ensure that drivers strictly comply when offloading on land.
- 4.4 The Contractor shall comply with all the requirements prescribed in the technical specification, unless otherwise stated.

#### 5. SAFETY:

- 5.1 Without derogation from the generality of Clause 5.1, or from any other Provision of this contract, the Contractor shall comply in all respects with the safety and other requirements of the Occupational Health Safety Act 85 of 93 and the regulations applicable.
- 5.2 Successful tenderers will be required to compile and submit a Health and Safety File for approval by the JW OHS Department prior to commencement of the contract.
- 5.3 The tenderers attention is drawn towards the Occupational Health and Safety Declaration form (Annexure A) which must be fully completed and submitted with the tender.
- 5.4 Upon award, the successful service provider(s) will be inducted by the company's OHS department on the requirements that will be applicable for the duration of the contract in terms of all occupational health and safety.
- 5.5 For the duration of the contract, monthly site inspections will be conducted by the assigned OHS representative of JW where the appointed service provider(s) will be inspected for compliance in line with the health and safety requirements as set out on the **Volume 2**-Occupational Health, Safety & Environmental Specification of the tender document and any other requirements as expected.

# 6.INSURANCE AND INDEMNIFICATION:

In addition to any insurance required to be held by the Service provider in terms of the Contract in terms of the Occupational Injuries and Diseases Act no. 130 of 93, the Service provider must be fully insured against all accidents, loss or damage arising out of the conditions or operation of the vehicles or execution of any work including all third-party risks. The Service provider hereby indemnifies and agrees to keep indemnified throughout the period of the contract JW against all claims by third parties or the Contractor's own employees resulting from the operations carried out by the Service provider under this contract.





- A current certificate of good standing in terms of the Compensation for Occupational Injuries and Diseases Act (COIDA), 93 must be furnished by the Service provider within 21 days of notification of acceptance of the tender.
- 6.3 The service provider shall be liable for any damages or injury of whatever nature caused directly or indirectly because of his operations, to any of JW's or Municipal Government or Private Property or to his own vehicles and personnel.
- 7. REMEDIES, BREACH, WHOLE AGREEMENT, WAIVER VARIATION AND INDULGENCES:
- 7.1 If the supplier or any person employed or associated with him or in the case of a Company, a Director or shareholder or person similarly associated with such Company, either directly or indirectly gives or offers to give any gratuity, reward or commission or other bribe to any person in the employ of JW this contract shall be avoidable at the instance of JW.
- 7.2 If the Contractor has not complied with the Managing Director's requirements or if he is in breach of any of the Conditions of this contract and:
  - 7.2.1 Fails to remedy such breach within fourteen (14) days of receipt of written notice requiring it to do so (or if not reasonably possible to remedy the breach within fourteen (14) days), within such further period as may be reasonable in the circumstances, provided that the Contractor furnishes evidence within the period of fourteen (14) days reasonably satisfactory to JW, that it has taken whatever steps are available to it to commence remedying the breach, then the JW shall be entitled, without notice and in addition to any other remedy available to it at law or under this agreement, including obtaining an interdict, to cancel this agreement or to claim specific performance of any obligation whether or not the due date for performance has arrived, in either event without prejudice to JW's right to claim damages.
  - 7.2.2 Should JW elect to cancel the contract then and in such instance a certificate presented by the Managing Director of JW shall constitute proof of the contractor's indebtedness to JW.
- 7.3 This agreement constitutes the entire agreement between the parties relating to the matter hereof.
- 7.4 No amendment or consensual cancellation of this agreement or any provision or term hereof or of any agreement, bill of exchange or other document issued or executed pursuant to or in terms of this agreement and no settlement of any dispute arising under





this agreement and no extension of the time, waiver or relaxation or suspension of any of the provisions or terms of this agreement or of any agreement, bill of exchange or other document issued pursuant to or in terms of this agreement shall be binding unless recorded in a written document signed by the parties. Any such extension, waiver or relaxation or suspension, which is so given or made, shall be strictly construed as relating to the matter in respect whereof it was made or given.

#### 8. DISPUTES:

8.1

9.1

In the event of any dispute arising between JW and the Contractor in connection with or arising out of the contract, it shall be referred to the Managing Director of JW who shall state his decision in writing and give notice of the same to the Contractor within 28 days of the dispute having been submitted to the Managing Director of JW. Such decision shall be binding upon the Contractor subject to clause 9.2.

- 8.2 Should the Contractor be dissatisfied with the decision of the Managing Director he/she may, within 28 days after receiving notice of such decision, require that the issue or issues be referred to a single arbitrator to be agreed upon between the parties or, failing agreement, to be nominated by the Chairman of the Association of Arbitrators and any such reference shall be deemed to be submission to the arbitration of a single arbitrator in terms of the Arbitration Act, 65. The award of the arbitrator shall be final and binding on both parties.
- 8.3 Not later than one week after receipt of notice calling for arbitration, JW may give notice to the Contractor that the dispute or disputes be settled by Court of Law having jurisdiction.

# 9. SCOPE OF CONTRACT:

- Trucks will be loaded with sewage sludge by Front end Loaders supplied by JW at Goudkoppies, Bushkoppies, Olifantsvlei, Northern and Driefontein Works (or any other works located within, and surrounding the City of Johannesburg area). The Sludge then needs to be transported and dumped at approved sites at private farms within 0-100km from the Works.
- 9.2 When undertaking sludge collection, transportation and unloading; the Contractor will be required to work with JW staff under the direction of the Works Manager, but operational control will rest with the Contractor's Driver and Contractor's sludge coordinator.
- 9.3 The volume of sludge that needs to be transported to private farms can vary substantially.

Estimated Average volumes are as follows:







Northern Treatment Works								
Plant	Minimum	Maximum						
Northern		350						
Works	115m³/day	m³/day						
Driefontein Works	10 m <sup>3</sup> /day	60 m <sup>3</sup> /day						
Total Number of								
Trucks	4 Trucks	12 Trucks						

Southern Treatment Works							
Plant	Minimum	Maximum					
		120					
Goudkoppies Works	40 m <sup>3</sup> /day	m³/day					
Ennerdale							
Works	30 m³/day	60 m <sup>3</sup> /day					
Olifantsvlei		200					
Works	175 m³/day	m³/day					
Total Number of							
Trucks	7 Trucks	9 Trucks					

\*The above-mentioned quantities are estimates, they will vary based on sludge production at the various works. This is as and when.

The vehicles accepted by JW in terms of this contract shall not be used other than for the purpose of this contract unless agreed in writing by JW.

Sludge solar drying operations may substantially influence the quantity of sludge to be transported from the Works.

9.5

9.6

When sludge cannot be dried at Driefontein, Northern Works, Goudkoppies, Bushkoppies and Olifantsvlei Works, the volume of sludge that needs to be transported, can easily more than double. Rain can also influence the drying operations and the sludge volumes that need to be transported.

Rain on farmland can render the trucks inaccessible which needs to be addressed as per contract.

9.7

Varying distances to farms as well as the moisture content of the sludge will also influence the number of trucks required.

9.8

Both wet and dry sludge will have to be transported.

9.9 JW developed a sludge plan to (in a phased way), eventually comply with the A1a sludge standard. In terms of the "Guidelines for the Utilisation and Disposal of Wastewater sludge" TT 262/06, as incorporated into the works license conditions.





- 9.11 Once JW can produce A1a sludge in a sustainable way, it is planned to dispose of the compliant sludge by means of a separate new contract. Collection and disposal in terms of this new separate contract should hopefully relieve JW from any transport costs.
- 9.12 Prospective tenderers should therefore take into consideration that this contract might during the 3-year period, change from transporting both wet and dry sludge, to a contract scope which will only apply to the transport and disposal of wet or non-compliant sludge.
- 9.13 This change is however not envisaged during the first year of the duration of this contract.
- 9.14 JW allows outside parties to collect sludge at the works with no cost to JW subject to certain conditions. Such collections will also impact on the sludge volumes to be transported in terms of this contract.

#### 10. REQUIREMENTS:

- 10.1 The Contractor shall be required to provide sloper tipper trucks for on-and off-road duties to collect and transport sewage sludge according to the duties set out in the specification.
- The sloper tipper trucks shall have a loading capacity of at least 30m³ each, to load 30m³ wet or dry sludge; with sufficient freeboard available to prevent spillages.
- Tenderers must state on the Technical Data Sheet, the type of vehicle/chassis offered.
- 10.4 Vehicles shall be equipped with additional functional safety mechanisms to prevent any spillages in transit.
- Horses to be equipped with a double differential (6x4) to enable offloading in loose maize fields.
- 10.6 All trailers shall be clearly marked on the inside by an acceptable method to indicate loading volumes, e.g. welding of metal indicators.
- 10.7 An active satellite management system must be installed in all vehicles to record trip positions (including offloading position, date time route and distances travelled). This information must be accessible to JW within 24 hours of a request during the contract term.





- No person employed by the contractor on this contract will be allowed to stay at any of the Works after working hours. The contractor must provide accommodation, for drivers off-site. JW will provide ablution facilities during working hours only which should be left in a clean state after use.
- 10.9 Proof of valid Driver's License with PrDP, of employees that will be executing the services for JW throughout the duration of the contract to be submitted by successful contractor upon receipt of letter of appointment, prior to commencement of work.

# 11. QUANTITIES:

- 11.1 Due the nature of this work, all orders issued during the contract term will be on an "as and when" required basis. Contractors must take note of the variances that must be expected in the volume of sludge to be transported as stipulated in Clause 10

  The plant will be required on an "as and when" required basis based on JW's needs.
- The number of sloper tipper trucks that the tenderers are willing to offer for the duration of the contract, should be stated and taken on a serious light. Penalties will be imposed on the contractor during the duration of the contract, in a case where JW needs the trucks, and they cannot be availed.

# 12.TENDER OF VALIDITY:

12.1 The Tender shall be valid for a period of 90 days from the closing date of Tenders.

# 13. ADJUDICATION OF TENDERS:

13.1 The highest, lowest or any tender will not necessarily be accepted by JW. JW reserves the right to adjudicate the Tender to its best interest and it is not necessarily intended to award the contract to only one Contractor. Adequate number of contractors shall be appointed to suit the operational needs of the company.

# 14. ACCEPTANCE OF TENDER:

- 14.1 A valid and binding contract will be concluded at the time that the contractor signs an official Contract Document at the offices of JW after the contractor is in possession of the letter of acceptance.
- 14.2 The contract, once awarded, will be effective for a period of thirty-six (36) months.

# 15.METHOD OF WORKING:

- 15.1 The Contractor shall be responsible for the maintenance and fuelling of vehicles.
- The Contractor is required to have adequate reserve of vehicles or shall make adequate arrangements for replacements to be available. Should extensive rain cause backlogs more than the normal daily production at any of the Works, the contractor can





be granted an extended period at the discretion of the BWW Manager to address and dispose of the backlog.

- Any damages caused by sludge backlogs due to nonperformance by the contractor shall be reinstated by the contractor within 14 days of occurrence. Failure to reinstate within the specified period will result in JW repairing the damages at the contractor's account, which shall be deducted from any outstanding amounts due to the contractor by JW, at the discretion of the BWW Manager.
- The Contractor shall not unduly hinder or prevent the free and continual use of vehicle entrances, tradesmen's entrances, gateways, etc.

16. WORKING HOURS:

16.1 Working hours at the Treatment Works to be 7:00 – 15:30 during Weekdays. Special permission will be required to work after hours or on Saturdays and Sundays

17. PAYMENT:

- 17.1 Payment on this contract will be as follows:
  - Invoices must be submitted covering a calendar month commencing on the 1st day and ending on the last day of the month.
  - ii. The contractor shall submit by the 6th working day of every month a complete and detailed invoice in triplicate for work done during the previous calendar month. Payment will be based on the invoices subject to any adjustment by the Bulk Wastewater Manager in respect of errors, downtime, penalties or any other claim that 'JW' may have in respect of this contract.
  - iii. Daily trip control sheets (supplied by JW) are to be submitted daily to the Sludge Coordinator countersigned by a responsible official designated by the Bulk Wastewater Manager.
  - iv. All documents required in the Clauses 18.1 (iii), shall be accurately completed in every respect. Any delays or breakdowns attributable to mechanical defect or to the acts or omissions of the Contractor or his employees must be recorded. It must be expressly understood that senior officials of JW cannot personally supervise the operation of every vehicle, so the accuracy of information recorded on these documents is of paramount importance. Any inaccuracy, which could have bearing on, the amount paid to the Contractor will be regarded in the most serious





light and may, at the discretion of JW, be regarded as a breach of the Contract.

- v. Payment shall be made within 30 days of statement from the Bulk Wastewater Manager approving the invoice.
- vi. Invoices for payment must be submitted under the contractor's name and made at the applicable rates.
- vii. The rates tendered shall be for the transport and offloading on an m3/km basis one way.
- viii. The rates as tendered shall be inclusive of all costs incurred by the Contractor Including the return journey.
- ix. JW is entitled to deduct from any payment due to the Contractor amounts due to JW in terms of Clauses and 17.3.
- x. Payment for work done during overtime will be the same as that for normal time. Should overtime be allowed by the BWW manager on contractor's request; the contractor shall be liable for the additional cost incurred by JW.

# 18. BREAKDOWNS/ PENALTIES

18.1

Should the required number of vehicles offered by the tenderer be unavailable, vehicles breakdown or become defective or to be unable to perform the tasks required and so cause delay of work at any time, such vehicle(s) shall be replaced within 24 hours from time of such breakdown if the conditions stipulated by Clause .2 for allowable backlogs are exceeded.

Instead of exercising its rights in terms of Clause 22 of the General Conditions of Contract (JW 13), the Bulk Wastewater Manager may impose the following penalties in terms of the Conventional Penalties Act No. 15 of 62.

i)

In the event of the Contractor being unable to supply the replacement vehicles within the time stipulated by Clause .1, the following procedure in applying penalties will be adopted:

- a) Penalties will be applied for successive 1-day periods or part thereof calculated after the end of the one day calculated after the end of the one day the requirement of Clause 18.2.
- b) The amount of penalty to be applied will be based on the full daily rate for each penalty period as follows:
- 1. Period up to 2 working days delay period:



20. LEGAL:

21.FURTHER

22. NOTICE:

INFORMATION:



## **SPECIAL CONDITIONS**

ii)

20.1

20.2

21.1

22.1

22.1.1

Daily rate + 10% for the entire delay period

- 2. Period up to 4 working days delay period: Daily rate + 20% for the entire delay period.
- 3. Period up to 6 working days delay period Daily rate + 30% for the entire delay period.

Penalties will be applied by Bulk Wastewater Manager. The daily rate in this sub-clause will be taken as the total average daily rate for the preceding 5 working days.

.COMPLETENESS: .1 Failure by the tenderer to complete the tender in full will render the tenderer liable to rejection on grounds of being incomplete.

> All vehicles tendered and loads (carrying of up to 30 tons of sludge) must conform to the requirements of the Road Traffic Act No. 93 of 96 and Regulations as amended and any other relevant Act which regulates the transport of sludge/ hazardous waste.

The Tenderer must ensure that all relevant legislation is complied with in the employment of all labour.

Should the tenderer have any queries regarding this tender he/she must submit these in writing to Ntokozo Mdluli via email at <a href="mailto:ntokozo.mdluli@jwater.co.za">ntokozo.mdluli@jwater.co.za</a> or Keorapetse Mdluli at keorapetse.nyokong@jwater.co.za during office hours from 07:30am to 15:30pm Monday to Friday within the first two weeks after the tender has been advertised.

Any NOTICE or communication required or permitted to be given in terms of this agreement shall be valid and effective only if in writing and may be given in one or more of the following manners:

Sent by prepaid registered post (by airmail if appropriate) in an envelope correctly addressed to it at an address chosen as its domicilium citandi et executandi to which post it is delivered, in which event such notice shall be deemed to have been received on the 7th (seventh) business day after posting (unless the contrary is proved); or

Delivered by hand to a responsible person during ordinary business hours at the physical address chosen as its domicilium citandi et executandi, in which event such notice shall be deemed to have been received on the day of delivery; or

22.1.3

22.1.2





Sent by telefax to its chosen telefax number, in which event such notice shall be deemed to have been received on the date of dispatch (unless the contrary is proved).

22.2

Notwithstanding anything to the contrary herein contained a written notice or communication received by a party shall be adequate written notice or communication to it notwithstanding that it was not sent to or delivered at its *domicilium citandi et executandi*.





## 19. General Conditions of Contract

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- **1. Definitions** 1. The following terms shall be interpreted as indicated:
- 1.1 "Closing time" means the date and hour specified in the bidding documents for the receipt of bids.
- 1.2 "Contract" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- 1.3 "Contract price" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
- 1.4 "Corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.
- 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
- 1.6 "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7 "Day" means calendar day.
- 1.8 "Delivery" means delivery in compliance of the conditions of the contract or order.
- 1.9 "Delivery ex stock" means immediate delivery directly from stock actually on hand.
- 1.10 "Delivery into consignees store or to his site" means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the goods are so delivered and a valid receipt is obtained.
- 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.
- 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 "GCC" means the General Conditions of Contract.
- 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the goods covered by the bid will be





# manufactured.

- 1.17 "Local content" means that portion of the bidding price, which is not included in the imported content provided that local manufacture does take place.
- 1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.
- 1.25 "Supplier" means the successful bidder who is awarded the contract to maintain and administer the required and specified service(s) to the State.
- 1.26 "Tort" means Delict
- 1.27 "Turnkey" means a procurement process where one service provider assumes total responsibility for all aspects of the project and delivers the full end product / service required by the contract.
- 1.28 "Written" or "in writing" means hand-written in ink or any form of electronic or mechanical writing.

# 2. Application

- 2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services (excluding professional services related to the building and construction industry), sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, special conditions of contract are also laid down to cover specific goods, services or works.
- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.
- 3. General 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.
- 3.2 Invitations to bid are usually published in locally distributed news media and on the municipality/municipal entity website.
- 4. Standards 4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.





# 5. Use of contract documents and information inspection

- 5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser
- 5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

# 6. Patent Rights

- 6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.
- 6.2 When a supplier develops documentation / projects for the municipal owned entity (MOE), the MOE shall retain ownership of any written opinion, advice, presentation or other deliverable that the supplier produces for the MOE in its tangible form on payment of all fees due, owing and payable to the supplier. The ownership of the intellectual property rights in the services, products of the services and the methodology and technology used to perform the services and all its working papers shall be retained by the supplier.

# 7. Performance security

- 7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
- (b) a cashier's or certified cheque.
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified.

# 8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that goods to be produced or services to be rendered should at any stage be subject to inspections, tests and analyses, the bidder or contractor's premises shall be open, at all reasonable hours, for inspection by a representative of the
- purchaser or organization acting on behalf of the purchaser.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall





itself make the necessary arrangements, including payment arrangements with the testing authority concerned.

- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the goods to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the goods or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such goods or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Goods and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract goods may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected goods shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with goods, which do comply with the requirements of the contract. Failing such removal the rejected goods shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute goods forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected goods, purchase such goods as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 22 of GCC.

# 9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, and in any subsequent instructions ordered by the purchaser.

#### 10. Delivery and documents

10.1 Delivery of the goods and arrangements for shipping and clearance obligations, shall be made by the supplier in accordance with the terms specified in the contract.

#### 11 Insurance

11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified.

# 12.Transportation

12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified.

#### 13. Incidental Services

- 13.1 The supplier may be required to provide any or all of the following services, including additional services, if any:
- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods:
- (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
- (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed





by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract: and

- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.
- 13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

# 14. Spare parts

- 14.1 As specified, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:
- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and;
- (b) in the event of termination of production of the spare parts:
- (i) advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
- (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

# 15. Warranty

- 15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise.
- 15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, within the period specified and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.
- 15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.
- **16. Payment** 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of other obligations stipulated in the contract.
- 16.3 Payment shall be made within 30 days of receipt of the supplier statement, provided the statement submitted is correct and submitted to Johannesburg Water before the end of the month. The invoice for which payment is required must be correct, must be reflected on the statement referred to above and also be submitted by no later than the end of the month.





16.4 Payment will be made in Rands unless otherwise stipulated.

#### 17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized or in the purchaser's request for bid validity extension, as the case may be.

#### 18. Variation in contractual hours

18.1 In the event that work to be performed in terms of this contract be completed in less than the envisaged time, or in the event that the duration of such work exceeds the envisaged time pursuant to the approval by JW of an exception report referred to in clause 8 of the Scope of Work, the rate per hour payable to the contractor shall remain the same.

**19. Assignment** 19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

#### 20.Subcontracts

20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

# 21. Delays in the supplier's performance

- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the goods are required, or the supplier's services are not readily available.
- 21.4 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of penalties.
- 21.5 Upon any delay beyond the delivery period in the case of a goods contract, the purchaser shall, without cancelling the contract, be entitled to purchase goods of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

## 22. Penalties

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC







# 23. Termination for default

- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2:
- (b) if the supplier fails to perform any other obligation(s) under the contract; or
- (c) if the supplier, in the judgement of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner, as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.
- 23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.
- 23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the supplier as having no objection and proceed with the restriction.
- 23.5 . Any restriction imposed on any person by the purchaser will, at the discretion of the purchaser, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the purchaser actively associated.
- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
- (i) the name and address of the supplier and / or person restricted by the purchaser;
- (ii) the date of commencement of the restriction
- (iii) the period of restriction; and
- (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 . If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters.

When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of

restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website

# 24. Antidumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect





of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the supplier to the purchaser or the purchaser may deduct such amounts from moneys (if any) which may otherwise be due to the supplier in regard to goods or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him.

# 25. Force Majeure

- 25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.
- 25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

# 26. Termination for insolvency

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the purchaser.

# 27. Settlement of Disputes

- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
- (b) the purchaser shall pay the supplier any monies due the supplier for goods delivered and / or services rendered according to the prescripts of the contract.

## 28. Limitation of Liability

- 28.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to Clause 6;
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and
- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.





# 29. Governing language

29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

# 30. Applicable law

- 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified.
- **31. Notices** 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice.
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

#### 32. Taxes and duties

- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid SARS must have certified that the tax matters of the preferred bidder are in order.
- 32.4 No contract shall be concluded with any bidder whose municipal rates and taxes and municipal services charges are in arrears.

#### 33. Transfer of contracts

33.1 The contractor shall not abandon, transfer, cede assign or sublet a contract or part thereof without the written permission of the purchaser

# 34. Amendment of contracts

34.1 No agreement to amend or vary a contract or order or the conditions, stipulations or provisions thereof shall be valid and of any force unless such agreement to amend or vary is entered into in writing and signed by the contracting parties. Any waiver of the requirement that the agreement to amend or vary shall be in writing, shall also be in writing.

# 35. Prohibition of restrictive practices

35.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder(s) is

/ are or a contractor(s) was / were involved in collusive bidding.

35.2 If a bidder(s) or contractor(s) based on reasonable grounds or evidence obtained by the purchaser has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and

possible imposition of administrative penalties as contemplated in section 59 of the Competition Act No 89 of 1998.

35.3 If a bidder(s) or contractor(s) has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

Revised May 2013







# 20. Banking Details for Electronic Funds Transfer

- Requirements

   All fields below must be completed and only the completed original authorised form will be accepted. (Faxed and emailed copies are
  - not accepted).
    This form must be accompanied by an original cancelled cheque or an original signed and stamped letter from your bank (date must be not older than 3 months). Alternatively this form can be stamped by your bank.

Supplier Name	
Contact Person	
Email Address	
Telephone Number	
Fax Number	
·	
Bank Information	
Name of Payee (Must be th same as your supplier name)	е
Name of Bank	
Account Number	
Branch Code-(to be confirme	ed
with your bank for EFT payments)	
Branch Name	
Reference (if applicable	<b>2)</b>
	essful, I hereby authorize Johannesburg Water SOC Ltd, to make all payments by EFT into the above
	hed the required documents as requested. I have the authority to provide and authorize the above
information on behalf of the co	orporation/organization/payee.
<b>Authorized representative</b>	of supplier
Name & Surname:	Date:
Signature :	Designation



# JW POPIA PRIVACY STATEMENT



# 21. JW POPIA Privacy Statement.

In terms of the Protection of Personal Information Act, 213 (Act 4 of 2013), also called the POPI Act or POPIA, Johannesburg Water SOC Limited, undertakes all reasonable measures to protect personal information and to keep it private and confidential.

# 1. Privacy Notice applies to:

Suppliers, vendors, contractors, service providers, etc whether appointed or prospective.

# 2. Definitions of personal information

According to the Act "personal information" means information relating to an identifiable living, natural person, and where it is applicable, an identifiable, existing juristic person. All addresses including residential, postal and email addresses.

# 3. About the Public Entity

Johannesburg Water (SOC) Limited, registration number 2000/029271/30

#### 3.1 The information we collect

We collect information directly from you where you provide us with your personal details. Where possible, we will inform you what information you are required to provide to us and what information is optional.

# 3.2 How Johannesburg Water use your information

We will use your personal information only for the purposes for which it was collected and agreed with you. For example: to gather contact information, to confirm and verify your identity, for the evaluation and adjudication of bids and quotations for tenders, request for quotations, and other personal information for the procurement of goods and services by the Entity.

# 3.3 Disclosure of information

We may disclose your personal information to our Shareholder, the City of Johannesburg, and other Government agencies such as National Treasury, and the Auditor-General of South Africa. We have agreements in place to ensure that they comply with the privacy requirements as required by the Protection of Personal Information Act.

We may also disclose your information:

- Where we have a duty or a right to disclose in terms of law;
- Where we believe it is necessary to protect our rights.

# 3.4 Information Security

We are legally obliged to provide adequate protection for the personal information we hold and to stop unauthorised access and use of personal information. We will, on an ongoing basis, continue to review our security controls and related processes to ensure that your personal information remains secure.

When we contract with third parties, we impose appropriate security, privacy and confidentiality obligations on them to ensure that personal information that we remain responsible for, is kept







secure. We will ensure that anyone whom we pass your personal information agrees to treat your information with the same level of protection as we are obliged to.

# 3.5 Your rights: Access to Information

You have the right to request a copy of the personal information we hold about you. To do this, simply contact us at informationofficer@jwater.co.za, and specify what information you require.

# 3.6 Correction of your personal information

You have the right to ask us to update, correct or delete your personal information. We will require a copy of your identification document to confirm your identity before making changes to personal information we may hold about you. We would appreciate it if you would keep your personal information accurate and up to date.

#### 3.7 How to contact us

If you have any queries about this document; you need further information about our privacy practices; wish to withdraw consent; exercise preferences or access or correct your personal information, please contact us at the numbers listed on our website or send an email to informationofficer@jwater.co.za.



OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION						
TENDER NUMBER:	JW OPS 005/25					
PROJECT LOCATION:	VARIOUS LOCATIONS WITHIN THE CITY OF JOHANNESBURG					
PROJECT DESCRIPTION:	TRANSPORTATION OF SEWAGE SLUDGE ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS.					

# Returnable Annexure A: Acknowledgement of SHE Specification & Annexures

# **DECLARATION BY CONTRACTOR**

I, the undersigned, and representing the tenderer as indicated hereby acknowledge that I have obtained copies of the following listed documentation and confirm that I fully understand the contents thereof and confirm compliance thereto in the event of being successful:

- OHS Specification (Volume 2)
- Annexure 1: Baseline Risk Assessment
- Annexure 2: Medical Screening Policy
- Annexure 3: Sign off form
- Annexure 4: Environmental Management Plan

## We furthermore commit to:

- Comply with all applicable SHE related legal and other requirements.
- Inform all staff of their role in managing environmental impacts and safety hazards on site.

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Name of tenderer	
Name of Authorized person	
Authorized Signature*	

<sup>\*</sup>Signature must be as per form T2.12 as applicable



OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION					
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# **VOLUME 2**

# Occupational Health & Safety Specification

**JW OPS 005/25** 

# TRANSPORTATION OF SEWAGE SLUDGE ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS

Prepared by: OHS Department	PRINCIPAL CONTRACTOR:	
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	E-MAIL ADDRESS:	
	SIGNATURE:	

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## **General Notification**

This document forms an integral part of the Contract Specification and, in particular, shall constitute the Client's (Johannesburg Water SOC Ltd.) Occupational Health & Safety (OHS) Specification, as required by the Construction Regulations, 2014, as promulgated under the Occupational Health and Safety Act (Act no. 85 of 1993). The Specification shall furthermore be applied for the management of Mandatories performing activities for or on behalf of Johannesburg Water SOC Ltd, irrespective whether the contract work constitutes construction work or not.

The Contract Specification is contained in Volume 1 of the contract documents in Part 3: Scope of Work.

## Acknowledgements

This Occupational Health & Safety (OHS) Specification was developed by the internal OHS Department for the sole use by Johannesburg Water SOC Ltd. The issue date of this OHS Specification is September 2016.

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REQUIRED BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS

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# **ABBREVIATIONS**

Abbreviation	Description
CR	Construction Regulations
COID	Compensation for Occupational Injuries and Diseases
DoL	Department of Labour
GAR	General Administrative Regulations
GMR	General Machinery Regulations
GSR	General Safety Regulations
HCS	Hazardous Chemical Substances
HIRA	Hazard Identification and Risk Assessment
JW	Johannesburg Water (SOC) Ltd
SDS	Safety Data Sheet
OHS	Occupational Health and Safety
PPE	Personal Protective Equipment
PER	Pressure Equipment Regulations
SANS	South African National Standards
SABS	South African Bureau Standard
OHS	Safety, Health & Environment
SOC	State Owned Company

# **DEFINITIONS**

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"WCL 1", "WCL 2" and "WCL 22"	Means the prescribed forms for reporting of incidents and occupational diseases referred to in the Compensation for Occupational Injuries and Diseases Act.
Competent Person	A person who has in respect of the work or task to be performed the required knowledge, training, experience and, where applicable, qualifications specific to that work or task: provided that where appropriate, qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 2000 (Act 67 of 2000).
Construction work	<ul> <li>Any work in connection with:</li> <li>a) The construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure</li> <li>b) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work</li> </ul>
Contractor (inclusive of Principal Contractor)	Any organization, person, entity performing activities for or on behalf of Johannesburg Water SOC Ltd.
Corrective Action	Action to eliminate the cause of a detected nonconformity or other undesirable situation.
Employee	Any person who is employed by or works for an employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person
Employer	Any person who employs or provides work for any person and remunerates that person or expressly or tacitly undertakes to remunerate him, but excludes a labour broker as defined in section I (1) of the Labour Relations Act, 1956 (Act No. 28 of 1956)
Hazard	Means a source of or exposure to danger.
Hazard identification	The identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed.
Incident	Means an incident as contemplated in section 24 (1) of the OHS Act 85 of 1993.
Machinery	means any article or combination of articles assembled, arranged or connected and which is used or intended to be used for converting any form of energy to performing work, or which is used or intended to be used, whether incidental thereto or not, for developing, receiving, storing, containing, confining, transforming, transmitting, transferring or controlling any form of energy
Mandatory	Includes an agent, a contractor or a subcontractor for work, but without derogating from his status in his own right as an employer or a user
Medical surveillance	Means a planned programme or periodic examination (which may include clinical examinations, biological monitoring or medical tests) of employees by an occupational health practitioner or, in prescribed cases, by an occupational medicine practitioner.
Method Statement	A document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in any risk assessment.
Principal Contractor	Any employer who performs work and is appointed by the Client to be in overall control and management of the contract work (inclusive of Mandatories).
OHS File	A file or other record in permanent form, containing the information required as contemplated in the S.H.E Specification Document and legal requirements applicable to work activities.
OHS Plan	A documented plan which seeks to address all hazards identified means and ways to control and eliminate such to ensure compliance to the S.H.E Specification.
Workplace	Any physical location in which work related activities are performed under the control of the organization.

## 1. Introduction

In terms of Section 37 of the Occupational Health and Safety Act (Act no. 85 of 1993), Johannesburg Water SOC Ltd is required to control persons/organizations conducting activities for or on their behalf (Mandatories) and the

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Construction Regulations promulgated under the Occupational Health and Safety Act (Act no. 85 of 1993), is requiring Johannesburg Water SOC) Ltd. to compile an occupational health and safety specification for any intended project classified as construction work and to provide the specification to prospective tenderers / Mandatories.

The dual objective of this specification is to ensure that the Mandatories and Principal Contractors (herein after called Principal Contractor (including Mandatories)) entering into a contractual agreement/relationship with Johannesburg Water SOC Ltd. achieves and maintains an acceptable level of occupational health, safety and environmental performance whilst conducting activities to perform the contract work.

This document forms an integral part of the Contract Specification and, in particular, shall be the OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENTAL (OHS) SPECIFICATION FOR CONSTRUCTION WORK. The Contract Specification is contained in Volume 1 of the contract documents. The principal and other contractors shall ensure that this specification is included with any contract/s that they may have with other contractors and/or suppliers that are engaged for the provision of labour, goods or services for this project. The Principal Contractor and its Contractors shall furthermore implement any reasonable practicable means to ensure compliance to this Occupational Health, Safety and Environmental (OHS) Specification and any other applicable legislation on their organization and/or activities performed by or for them. This OHS Specification will be read in conjunction, where issued and applicable, with the Environmental Specification issued for listed activities requiring environmental authorization by a relevant authority.

Compliance with this OHS specification does not absolve the Principal Contractor from complying with any other applicable minimum legal requirement and the Principal Contractor remains responsible for the sustainable integrity of the environment and the health and safety of its employees, mandatories as well as any persons affected by activities conducted for or on behalf of Johannesburg Water SOC Ltd (SOC) Ltd..

# 1.1 Johannesburg Water SOC Ltd's commitment to Occupational Health, Safety & Environmental (OHS) Management

Johannesburg Water SOC Ltd is committed to responsible occupational health, safety and environmental management. This commitment is essential to protect the environment, employees, Mandatories, visitors and provide a work environment conducive to health and safety. Principal Contractors and their Contractors shall demonstrate their commitment and concern by:

- Ensuring that decisions and practices affecting occupational health, safety and environmental performance are consistent with the issued OHS specification;
- Ensuring adequate resources are made available for the effective implementation of occupational health, safety and environmental control and mitigation measures;
- Participating in hazard identification and risk assessments and design safety reviews;
- Communicating occupational health, safety and environmental management processes, strategies and control
  measures with all levels of employees, contractor and/or visitors;
- Ensuring visible leadership at all sites;
- Promoting and enforcing the use of correct types of Personal Protective Equipment (PPE);
- Reporting and investigation of incidents and accidents and ensuring actions are identified and implemented to prevent similar types of incidents reoccurring;
- Participating in Client audits and meetings and ensuring required actions are implemented within reasonable time frames on the site/project;
- Recognizing and commending safe work practices and coaching employees who require guidance;
- Applying and enforcing consequence management from deviations and transgressions of/from compliance to this OHS Specification noted and/or observed, where applicable;
- Carrying out safety observations, implement corrective and preventative actions and giving immediate feedback;
- Encouraging employee participation in the formulation of work instructions and safety rules.

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#### 1.2 Scope of Occupational Health, Safety and Environmental (OHS) Specification

The scope of this Occupational Health, Safety and Environmental (OHS) Specification is to address the reasonable and foreseeable aspects of occupational health, safety and environmental management, which will be affected by the contract work.

The specification will provide the requirements that the Principal Contractor and other Contractors shall comply with in order to reduce the risks associated with the contract work, and that may lead to incidents causing injury and/or ill health or degradation of the environment, to a level as low as reasonably practicable and possible.

In particular, Johannesburg Water SOC Ltd will ensure that it shall not appoint any Principal Contractor unless it is reasonably satisfied that the contractor which it intends to appoint has the necessary competencies and resources to carry out the work safely.

#### 1.3 Omissions from OHS Specification

Where any omission from the OHS Specification is identified, applicable legal requirements will constitute the minimum standard for compliance to the relevant omission. The responsibility will be on the Principal Contractor to provide assurance to Johannesburg Water SOC Ltd on compliance to the applicable legal requirements related to the activity / task / process.

#### 1.4 Change management

Whenever Johannesburg Water SOC Ltd identifies the need to change or review the OHS Specification, approved changes and revisions will be communicated to the Principal Contractor. A cost analysis on the implementation of the proposed changes / revisions will be calculated through a collaborative processes between Johannesburg Water SOC Ltd and the Principal Contractor – where the approved changes and/or revisions has no cost implication for the Principal Contractor the Principal Contractor will be required to accept the approved changes / revisions and ensure implementation within the OHS Plan / File framework.

#### 2 Overview of contractor management process

The contractor management process consists of the following phases:

- Tender briefing and tender documentation;
- Competency evaluation of Principal Contractors (integrated into Supply Chain Management processes);
- Appointed contractor to attend OHS system induction;
- Preparation of OHS File by Principal Contractor;
- Evaluation of OHS File;
- Principal Contractor engagement phase;
- Project close-out and submission of consolidated Health & Safety File.

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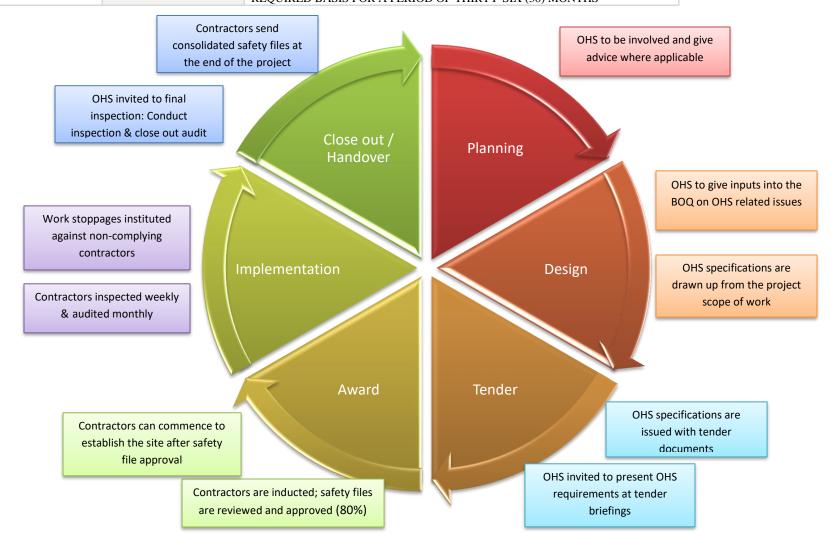


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#### 2. OHS DOCUMENTATION

#### 2.1 Safety file

The Principal Contractor will prepare a OHS File containing the processes / procedures and templates to be applied during the project period for the scope of work. The Principal Contractor will be evaluated during the contract period against the submitted OHS File.

Ata minimum the OHS File will contain the following documentation:

- Notification of construction work to the relevant Department of Labour (stamped on each page / no faxed copies);
- Scope of work to be performed;
- Personnel list (Principal Contractor employees);
- OH&S / OHS Policy and other Policies;
- Updated copy of the Occupational Health and Safety Act (Act no. 85 of 1993) and its Regulations; COID Act.
- Proof of valid registration and good standing with the Compensation Commissioner or another licensed Insurer;
- OHS Plan agreed with Johannesburg Water SOC Ltd.
- Approved risk assessments, review and monitoring plans and safe work procedures (method statements);
- A list of contractors (sub-contractors) including copies of the agreements between the parties and the type of work being done by each contractor;
- All written designations and appointments for project scope of work (CV and competency copies);
- Management structure (inclusive of OH&S responsibility & meeting structure);
- · Induction training and site OHS rules;
- Occupational health and safety training matrix / plan;
- Arrangements with contractors and/or mandatories;
- Description of security measures;
- The following registers (as applicable to contract scope of work):
  - Accident and/or incident notifications, investigation & control register;
  - Occupational health and safety representatives inspection register;
  - Template for entry into confined space;
  - Toolbox talks pro-forma;
  - Fall protection inspections template;
  - First-aid box content template;
  - Record of first-aid treatment template;
  - Fire equipment inspection and maintenance template;
  - Ladder inspection template;
  - Machine safety inspections template (including machine guards, lock-outs etcetera);
  - Inspection templates for lifting machines and –tackle (including daily inspections by drivers/operators);
  - Inspection templates of scaffolding;
  - Inspections templates of structures;
  - o Templates of issuing of Personal Protective Equipment;
  - Monthly reporting and recording of statistics templates;
  - Keeping of any other record in terms of applicable legislation falling within the scope of OHS
    Legislation applicable to the project and the Principal Contractor / Contractor's activities and
    organization.
- Emergency preparedness and response programmes;
- Medical examination tests
- Vaccination records

#### 2.2 Principal contractor appointment

• The principal contractor will be appointed in terms of Construction Regulations 2014, Reg 5(1) k

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- All responsibilities imposed on the contractor by the Regulations will be applicable
- The duties will include:
  - a) Prepare a site specific OHS file based on client OHS specification and project scope.
  - b) Have an updated Letter of Good standing.
  - c) Ensure the necessary legal appointment letters are compiled and signed by affected parties.
  - d) Ensure OHS file submitted before work commences to Johannesburg Water for evaluation and approval.
  - e) Must ensure an organizational medical programme for its employees is in place. This must address preemployment, periodic examination, and exit examinations.
  - f) Ensure all employees undergo medical examination and are declared fit for the job they are employed for by a Medical Practitioner.
  - g) All employees undergo his control undergo company specific induction and Johannesburg water induction.
  - h) Ensure before work commences employees are trained on the health and safety risks associated with the work they are conducting.
  - i) Ensure employees are trained on company procedures, policies, method statements and informed of the Johannesburg Water OHS requirements as per the specification.
  - Ensure legislative requirements are complied with during the duration of the contract and ensure that their employees comply also.
  - k) Sign the 37 (2) Agreement between Johannesburg Water and themselves before any work commences and kept on their OHS file.
  - l) Ensure that 37(2) Agreement(s) are signed between themselves and their sub-contractors.
  - m) Ensure that sub-contractors have valid Compensation Commissioner Letter of Good Standing.
  - n) Have a disciplinary procedure to address those found to be transgressing requirements of OHS specification, OHS plan, site rules or any other OHS act and its Regulation requirement.
  - o) Prevent any employee or visitor who is under the influence of any alcohol or drugs (in state of intoxication) from being allowed to site.
  - p) Ensure the safety of employees who are taking legal medication.
  - q) Must hand over a consolidated OHS file at the end of the contract.
  - r) Stop his/her employees who are doing unsafe acts or who are creating an unsafe environment.
  - s) Investigate all incidents and report to Johannesburg water and ensure all reportable incidents as per the legislative requirement are complied with.
  - t) Ensure work is supervised by competent personnel and that work is done by competent employees.
  - Ensure pre-task risk assessment is done by a competent person and that employees are informed of the pre-task risks and the risk control measures.
  - v) Ensure tool box talks are conducted to communicate OHS issues in connection to the work being done and any other aspects.
  - w) Ensue that appointed personnel as per the OHS file are executing their duties as per the legal appointment.
  - x) Ensure first aid kit is made available in case of any emergency.
  - y) Ensure that housekeeping is maintained in good condition and that materials are store/stacked properly is designated areas.
  - z) Have sufficient waste receptacles and ensure the correct disposal of the different wastes.
  - aa) Proof of hazardous waste disposal to be requested from disposal site and to be kept inside OHS file.
  - bb) Take reasonable steps to ensure that each appointed sub-contractor health and safety plan is implemented and maintained on the site and OHS File documentation is up to date.
  - cc) Stop any work from being executed which is not in accordance with the client's health and safety specification and the principal contractor's health and safety plan for the site or which poses a threat to the health and safety of persons.
  - dd) Must maintain an up to date list of all the sub-contractors on site accountable to the principal contractor, the agreements between the parties and the type of work being done; and
  - ee) Ensure that all his or her employees have a valid medical certificate of fitness.

### **2.3 37.2** Agreement

Johannesburg Water will enter into a 37(2) Agreement with all the appointed contractors

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- A copy of the 37(2) Agreement must be kept in the OHS file of the contractor at all times.
- It is the responsibility of the contractor to ensure that there are 37(2) agreements between themselves and all their appointed sub-contractors.

### 2.4 OHS Plan

- The contractor shall prepare a OHS plan to address and manage all applicable sources of risk that are identified during the execution of the project. The OHS plan shall incorporate the requirements as listed in the OHS specification.
- A copy of the OHS plan shall be submitted together with OHS file for review and approval.
- It is the contractor responsibility to ensure they sub-contractor compiles a OHS plan that in line with the OHS specification requirement of Johannesburg Water.

### 2.5 Legislative framework

All contractors shall comply with legislation pertaining to this contract, including but not limited to:

- · Constitution of the Republic of South Africa
- Occupational Health and Safety Act and its associated Regulations
- National Environmental Management Framework Legislation
- National Road Traffic Act
- Applicable South African National Standards (SANS)
- Compensation of Occupational Injuries and Diseases Act (COID)
- Local by-laws and provincial ordinances

### 2.6 OHS Policy

A OHS policy is a statement of intent and a commitment by the organization Chief Executive or Managing Director (OHS Act 16(1) appointee) in relation to requirements applicable to their Safety, Health and Environmental legal obligation, relevant OHS roles and responsibilities, and contractual obligations to the Client.

The contractor and their sub-contractor companies shall each have a documented OHS Policy authorized by their Chief Executive/Managing Director (OHS Act Section 16 (1) Appointee). The OHS Policy must meet the following minimum requirements;

- Organizational Mission and Goal.
- State the overall OHS objectives within the project.
- Show commitment to the prevention of injuries and ill-health.
- Show commitment to the protection of environment and the conservation of natural resources.
- Must be reviewed at predetermined intervals, or when there is change in work process, serious incident occurs.
- The OHS Policy must be in line with OHSAS 18001 and ISO 14001 requirements and guidance documentation.
- Must be authorized by contractor CEO.

### 2.7 Appointments and competencies

- The contractor and its appointed sub-contractor must make the relevant legislative and non-statutory appointments, which must be maintained valid for the entire contract duration.
- All appointees shall be suitably trained and certified competent for the responsibilities they are assigned for.
- Copies of all relevant appointments and the relevant competence certificates must be kept in the relevant OHS file.

### 2.8 Supervision of construction work

- The principal contractor shall ensure that the construction manager and construction health and safety officer are appointed for a *single site* on a full time basis.
- JW should be informed in writing of the absence of the above-mentioned on site.

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### **Appointment index**

Appointment	Legislative Ref	Competency requirements (Min)
Health , Safety & Environmental Officer	CR 8.5 &	N.Dip Safety + 2yrs exp; OR
	JW Requirement	N.Dip Enviro + 3yrs exp; OR
		NEBOSH / SAMTRAC + 4yrs exp
		Experience in enviro / certificate
Supervisor	CR 8.7	3 yrs experience
	OHS Act 8(2)i	
Construction vehicle & mobile plant operators and	CR 23.1	Operator's certificate +
supervisors		A valid Driver's License with
		professional driving permit PrDP
		(Minimum Code C1 License or higher).
		Documentation indicating experience of
		a minimum of 6 months as a driver.
First-aiders	GSR 3	Certificate
Firefighting equipment inspector	CR 29	Certificate
Incident investigator	GAR 9.2	Certificate
Ladder inspector	GSR 13A	-
Risk assessor	CR 9.1	Certificate

### 2.9 Insurances

- The principal contractor and all his appointed contractors shall be registered with an appropriate compensation commissioner and have available a valid letter of good standing at all times.
- The obligation lies with the contractor to ensure that the Letter of Good Standing remains valid throughout the entire duration of the project.
- A copy of the said letter must be filed in all OHS files and made available during inspections and audits.

### 2.10 Costing for OHS

The contractor is responsible for ensuring that OHS costing is taken into consideration for the entire project/contract as this will ensure they comply with the OHS legislative requirements.

### 2.11 Sub-contractors

- Whenever the Principal Contractor appoints contractors or sub-contractors, it is a requirement that an Occupational Health and Safety Act (Act no. 85 of 1993) Section 37(2) agreement (i.e. Agreement with Mandatory) is entered into between the Principal Contractor and Contractors.
- The Principal Contractor will ensure that all appointed contractors comply with the Johannesburg Water SOC Ltd OHS Specification requirements.
- The Principal Contractor will establish a procedure on sub-contractor management and assurance on compliance to the established procedure will be provided to Johannesburg Water SOC Ltd on a monthly basis.

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- Principal Contractors are required to formally notify Johannesburg Water SOC Ltd before appointing subcontractors.
- Johannesburg Water SOC Ltd shall approve all specialist subcontractors to be appointed and/or engaged by the Principal Contractor.

### The Principal Contractor shall:

- Ensure prior to work commencing on the site that every contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act, 1993;
- Appoint each contractor in writing for the part of the project on the construction site;
- Take reasonable steps to ensure that each contractor's health and safety plan is implemented and maintained on the construction site:
- Ensure that the periodic site audits and document verification are conducted at intervals mutually agreed upon between the principal contractor and any contractor, but at least once every 30 days;
- Stop any contractor from executing construction work which is not in accordance with the client's health and safety specifications and the principal contractor's health and safety plan for the site or which poses a threat to the health and safety of persons;
- Include and make available a comprehensive and updated list of all the contractors on site accountable to the principal contractor, the agreements between the parties and the type of work being done; and
- Ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3.

### 2.12 Notification of construction work

 There will not be a need to notify the Provincial Director since the service provider will not be directly doing any construction work.

### 2.13 Construction work permit

There will not be a requirement for a construction work permit application based on the nature of work.

### 3. ORGANISATIONAL STRUCTURE

- The contractor shall develop and submit together with OHS file an organizational organogram related to the contractor, listing all the levels of responsibility from the Chief Executive down to the supervisor(s) responsible for the project.
- The organogram diagram must list all relevant positions, names of appointees and legal appointments.
- The contractor is responsible for updating the organogram timeously when there are changes to the appointments.
- All appointed sub-contractors are also required to compile their own organograms.

### 4. COMMITMENT TO OHS

- Visible commitment is essential to providing a safe working environment.
- Managers, supervisors and employees at all levels must demonstrate their commitment by being proactively involved in the day to day OHS operations.
- · Legislation requires that each employee takes reasonable care of themselves and their fellow workers

### 5. HIRA

Annexure 1: List of possible hazards emanating from projects and activities conducted for or on behalf of Johannesburg Water SOC Ltd includes an assessment of site specific health and safety hazards and risks and environmental aspects and impacts that have been identified by Johannesburg Water SOC Ltd as possibly applicable to the contract work for this project. It is by no means exhaustive and is offered as assistance to the tenderers and contractors.

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### **Development of risk assessments**

Every Contractor performing construction work shall, before the commencement of any construction work or work associated with the construction work, and during construction work, ensure that a risk assessment is undertaken by a competent person, appointed in writing, and the risk assessment shall form part of the OHS plan to be applied on the site. Risk assessments shall identify occupational health and safety hazards and risks and environmental aspects and impacts emanating from the activity to be performed by the Principal Contractor / Contractor.

The risk assessment (inclusive of impact assessment) shall include (at a minimum):

- Identification of the relevant Johannesburg Water SOC Ltd Project with regard to JW Number, Project name and area:
- Date on which risk assessments were conducted / reviewed;
- The identification of the risks / hazards and aspects / impacts to which persons may be exposed to per activity;
- The analysis and evaluation of the risks / hazards and aspects / impacts identified;
- Existing control measures and proposed corrective measures;
- A plan to review the risk assessments as the work progresses and changes are introduced;
- Identification of significant risks (e.g. high; exceeding 75%);
- A documented plan of Safe Working Procedures (SWP)', and its relevance to the risk assessment, inclusive
  of method statements, to mitigate, reduce or control the risks and hazards that have been identified;
- A plan to monitor the application of the Safe Working Procedures (SWP);
- Signature of appointed competent person conducting risk assessment; and
- Signature of approval by Principal Contractor management and employees involved in risk assessment.

Based on the risk assessments, the Principal Contractor must develop a set of site-specific occupational OHS rules that will be applied to regulate the health, safety and environmental hazards/aspects of the construction work.

The risk assessments, together with the site-specific occupational health and safety rules, must be submitted to Johannesburg Water SOC Ltd before mobilisation on site commences. These will be included in the OHS plan. The Contractor shall ensure through his risk management process the hierarchy of controls stipulated as follows, are implemented:

- *Eliminate* The complete elimination of the hazard.
- **Substitute** Replacing the material or process with a less hazardous one.
- **Redesign** Redesign the equipment or work process.
- **Separate** Isolating the hazard by guarding or enclosing it.
- Administrate Providing control such as training, procedures etc.
- Personal Protective Equipment (PPE) Use of appropriate and properly fitted PPE where other controls are not practical. (PPE as the last resort)

The Principal Contractor will be required to carry out the following three forms of risk assessment:

- Baseline risk assessment;
- Issue based risk assessment:
- Continuous risk assessments.

### Baseline risk assessments

The Principal Contractor is required to develop a baseline risk assessment taking the resources, competency levels, nature and scale of their organization into consideration for submission during OHS File evaluation phase. The hazards and risks to which persons, plant, vehicles and facilities may be exposed during the construction should be identified and evaluated. The aspects and impacts resulting in environmental pollution or degradation should also be identified and evaluated. Measures to reduce or control these risks or hazards should be defined during this assessment. The effectiveness of the measures defined and the baseline risk assessment prepared shall be monitored and reviewed from time to time to ensure that it remains relevant and accurate.

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### Issue based risk assessments

The Contractor will be required to carry out separate risk assessments during construction of the project when methods and procedures are varied, for example when:

- · Designs are amended;
- New machines are introduced;
- Plant is periodically cleaned and maintained;
- Plant is started-up or shut-down;
- · Systems of work change or operations alter;
- Indents or near-misses occur; or
- Technological developments invalidate prior risk assessments.

### Continuous risk assessments

The Occupational Health and Safety Act (Act no. 85 of 1993) specifically requires that employers shall provide and maintain working environments that are safe and without risk to health. The general awareness of hazards needs to be raised as work ethic to maintain a safe and risk free environment on an on-going basis. This is achieved by continuous risk assessments, a form of risk assessment that takes place as an integral part of day-to-day management. Examples of continuous risk assessments include:

- · Maintaining general hazard awareness, and
- Pre-work risk assessments / Daily Safety Task Instructions.

Occupational health and safety risks or environmental impacts that are identified during the risk assessment process shall be communicated before the commencement of the said activity to every employee whose work is associated with the risk. Each employee shall sign to confirm understanding of the safety, health or environmental risks in the tasks.

### Review of risk assessments

The Principal Contractor is required to review the hazards identified, the risk assessments and the Safe Work Procedures as the contract work develops and progresses and each time changes are made to the designs, plans and construction methods and/or processes. Revisions to the approved risk assessments and Safe Work Procedures will be presented at each production planning and progress meeting.

Risk assessments are to be reviewed whenever there is change on the scope of work, process, and accidents or when required by Johannesburg Water SOC Ltd

The Principal Contractor must provide Johannesburg Water SOC Ltd, other contractors and all other concerned or affected parties with copies of any changes, alterations or amendments to risk assessments and Safe Work Procedures within 14 days of such changes.

### 6. SAFE WORK PROCEDURES / METHOD STATEMENTS

Method statements or written safe work procedures shall be documented for all high risk activities:

- Design change or scope change/addition
- Change in job or task
- Introduction of new machinery, equipment or substance.

Method statements or written safe work procedures shall identify following:

- Tasks that are to be undertaken
- The hazards and associated risks of the task(s)
- The control measures for the task(s)
- The equipment and substances that are associated with task(s)
- Any training or qualification needed to do the task
- Personal protective equipment to be worn.

### 7. INCIDENT MANAGEMENT

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### 7.1 Reporting of accidents and incidents

The Principal Contractor must report all incidents where an employee is injured on duty to the extent that he:

- Dies
- Becomes unconscious
- Loses a limb or part of a limb
- Is injured or becomes ill to such a degree that he is likely either to die or to suffer a permanent physical defect
  or likely to be unable for a period of at least 14 days either to work or continue with the activity for which he
  was usually employed

### Or where -

- A major incident occurred
- The health or safety of any person was endangered
- Where a dangerous substance was spilled
- The uncontrolled release of any substance under pressure took place
- · Machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects
- Machinery ran out of control

to Johannesburg Water SOC Ltd within two days and to the Provincial Director of the Department of Labour within seven days from date of incident (Section 24 of the Occupational Health and Safety Act (Act no. 85 of 1993) and General Administrative Regulations), except that, where a person has died, has become unconscious for any reason or has lost a limb or part of a limb or may die or suffer a permanent physical defect, the incident must be reported to both Johannesburg Water SOC Ltd and the Provincial Director of the Department of Labour forthwith by telephone, telefax or e-mail.

- All other reports required by this specification must also be completed. Reporting of accidents / incidents to Johannesburg Water SOC Ltd will be on the prescribed format.
- The Principal Contractor is required to provide Johannesburg Water SOC Ltd with copies of all statutory reports required in terms of the Occupational Health and Safety Act (Act no. 85 of 1993) within 7 days of the incident occurring.
- The Principal Contractor is required to provide Johannesburg Water SOC Ltd with copies of all internal and external accident/incident investigation reports, within 7 days of the incident occurring.

### 7.2 Accident and incident investigation

- The Principal Contractor is responsible for the investigation of all accidents and/or incidents where employees and non-employees were injured to the extent that they had to receive medical treatment other than first aid.
- The results of the investigation are to be entered into the accident and/or incident register. The Principal Contractor is responsible for the investigation of all incidents, including those described in Section 24 (1) (b) and (c) of the Occupational Health and Safety Act (Act no. 85 of 1993) and for keeping a record of the results of the investigations including the steps taken to prevent similar accidents in future.
- The Principal Contractor is responsible for the investigation of all road traffic accidents, related to the construction activities, and for keeping a record of the results of the investigations including the steps taken to prevent similar accidents in future.
- Johannesburg Water SOC Ltd reserves the right to hold its own investigation into an incident or call for an independent external investigation.

### 7.3 Close out

- All incident investigation reports will be closed out once all the recommendations to prevent further incidents have been implemented.
- A copy of the investigation report must be handed to JW Safety Officer conducting the investigation.

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### 8. MEDICAL SCREENING REQUIREMENTS

- The Principal Contractor shall ensure that a medical surveillance programme is implemented for all employees.
- An initial health evaluation shall be carried out by an occupational health practitioner immediately, before after a person commences employment, where any exposure exists or may exist, which comprises:
  - o an evaluation of the employees medical and occupational history.
  - o a physical examination; and
  - o any other essential examination which in the opinion of the occupational health practitioner is desirable in order to enable the practitioner to do a proper evaluation.
- Medical surveillance and immunisation shall be done accredited at / by institutions or occupational health personnel, including, but not limited to:
  - Audiograms.
  - A cardio-respiratory examination / Lung function test.
  - Chest X-rays
  - Eye/ sight tests.
  - A general physical examination.
  - A review of previous medical history.
  - Glucose levels
  - Blood pressure
  - Vaccinations (Hepatitis and Typhoid)
- An entry medical certificate shall be obtained for all workers prior to commencing with site activities from approved medical institution. Copies of all medical certificates shall be retained in the OHS File prior to site establishment and before an employee is allowed to come onto site.
- Specific attention shall be given to the physical and psychological fitness of people who will be required to work in elevated positions and operators of mobile machinery.
- An exit medical certificate shall be obtained for all workers at the end of the contract and for all workers who
  leave the employment of the Contractor before the end of the Project. Copies of all exit medical certificates
  shall be submitted to the Johannesburg Water SOC Ltd Project Specialist or Appointed OHS Agent.

### 9 EMERGENCY MANAGEMENT

The Principal Contractor must appoint a competent person to act as emergency controller and/or coordinator.

The Principal Contractor must conduct an emergency identification exercise and establish what emergencies could possibly develop. He must then develop detailed contingency plans and emergency procedures, taking into account any emergency plan that Johannesburg Water SOC Ltd may have in place.

In the event where a contractor incorporates the services of a 3<sup>rd</sup> party service provider for the provision of Emergency Response Services, the following criteria must be met:

- Identification of 3<sup>rd</sup> party emergency response services (organization & contact details).
- Notification of contractor to 3<sup>rd</sup> party emergency response service of incorporation of services into contractor's emergency response plan (written agreement / signed letter).

The Principal Contractor and the other contractors must hold regular practice drills of contingency plans and emergency procedures to test them and familiarise employees with them.

### First-aid

The Principal Contractor must provide first-aid equipment (including a stretcher) and have qualified first-aider(s) on site as required by General Safety Regulations promulgated in terms of the Occupational Health and Safety Act (Act no. 85 of 1993).

The contingency plan of the Principal Contractor must include arrangements for the speedy and timeous transporting of injured and/or ill person(s) to a medical facility or of getting emergency medical aid to person(s) who may require it.

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The Principal Contractor must have written arrangements in place with his other contractors regarding the responsibility of the other contractors towards their own injured and/or ill employees.

### 10 OHS TRAINING

All employees in jobs requiring training in terms of the Occupational Health and Safety Act (Act no 85 of 1993) and any other applicable legislative requirements are to be in possession of valid proof of training. Other occupational health, safety and environmental training requirements of the Occupational Health and Safety Act (Act no 85 of 1993) and Construction Regulations can include:

- General induction;
- Site and job specific induction, including visitors;
- Occupational health and safety representatives;
- Training of the legal and nominated appointees;
- Operators and drivers of construction vehicles and mobile plant;
- Basic fire prevention and protection;
- Basic first aid;
- · Storekeeping methods and safe stacking; and
- Emergency planning and coordination
- Incident investigation
- Risk Assessment
- Planned job observations (supervisors)

All operators, drivers and users of construction vehicles, mobile plant and other equipment are to be in possession of valid proof of training and, where applicable, valid licenses.

### 12.1 General Job training

The contractor is required to ensure that before an employee commences work their direct supervisor or line manager who is responsible for the employee has informed the employees of his scope of authority, hazards and risks associated with the work to be performed as well as the safety control measure(s). This will involve discussion in connection with ay work standard, job description or company policy or procedure.

### 12.2 Awareness and promotion

The Principal Contractor is required to have a promotion and awareness programme in place to create an occupational health and safety culture within employees. The following are some of the methods that may be used:

- Toolbox talks:
- Posters:
- Videos;
- Competitions:
- Suggestion schemes;
- Participative employee activities such as "occupational health and safety circles".

The Principal Contractor is, at a minimum, required to provide awareness programmes to employees on the following:

- General Health and Safety Awareness
- Environmental Awareness:
- HIV / AIDS awareness.

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### 12.3 General competence requirement

The Principal Contractor shall ensure that his personnel and other contractors' personnel are trained and competent to carry out work safely and without risk to health has been completed before work commences. The Principal Contractor shall ensure that follow-up and refresher training is conducted as the work progresses and whenever the scope or nature of the work changes.

A "competent person" in relation to construction work, means any person having the knowledge, training and experience specific to the work or task being performed: Provided that where appropriate qualifications and training are registered in terms of the provisions of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995), these qualifications and training shall be deemed to be the required qualifications and training. It is the responsibility of the Contractor to determine whether any appropriate qualifications and training are registered in terms of the provisions of the South African Qualifications Authority Act.

Records of all training must be kept in the OHS File. The contents of the file will be audited from time to time.

At a minimum, the Principal Contractor will provide training on Safe Work Procedures / Safe Operating Standards to personnel responsible for performing the related task. Records of training on Safe Work Procedures / Safe Operating Standards will be retained. Competence and skill levels by the employees responsible for performing the task on the implementation of the Safe Work Procedures / Safe Operating Standards will be measured through Planned Job Observations.

### 12.4 Site-specific induction training

The Principal Contractor will be required to develop a project specific induction-training course based on the baseline risk assessment for the contract work. He will ensure that all his employees and other contractors and their employees have received training on the submitted induction-training programme.

All employees of the principal and other contractors are to be in possession of proof (on person) that they have attended a site-specific occupational health and safety induction-training course.

No contractor shall allow or permit any employee, visitor or any other person to enter the site, unless such employee or person has undergone health, safety and environmental induction training pertaining to the hazards prevalent on the site at the time of entry.

Where the Principal Contractor is required to operate within Johannesburg Water SOC Ltd Depot's the Principal Contractor will ensure that all employees undergo the Johannesburg Water SOC Ltd induction.

### 11 PPE REQUIREMENTS

- The Principal Contractor is required to continuously identify the hazards in the workplace and deal with them. He must either remove them or, where impracticable take steps to protect workers and make it possible for them to work safely and without risk to health under the hazardous conditions.
- The Principal Contractor will establish a Personal Protective Equipment Policy and a Personal Protective
  Equipment study will be conducted to determine the types of Personal Protective Equipment (PPE) to be
  supplied related to the hazards and risks emanating from the tasks.
- Cognisance shall be given to the gender of individuals required to where PPE; size required by the employee and size issued.
- Personal protective equipment should, however, be the last resort and there should always first be an attempt
  to apply engineering and other solutions to mitigating hazardous situations before the issuing of personal
  protective equipment is considered.

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- Where it is not possible to create an absolutely safe and healthy workplace the Principal Contractor is required
  to inform employees regarding this and issue, free of charge, suitable equipment to protect them from any
  hazards being present and that allows them to work safely and without risk to health in the hazardous
  environment.
- It is a further requirement that the Principal Contractor maintains the equipment, instructs and trains the employees in the use of the equipment and ensures that the employees use the prescribed equipment.
- Employees do not have the right to refuse to use and/or wear the equipment prescribed by the employer and, if it is impossible for an employee to use or wear the prescribed protective equipment through health or any other reason, the employee cannot be allowed to continue working under the hazardous condition(s) for which the equipment was prescribed. An alternative solution has to be found that may include relocating the employee.
- The Principal Contractor may not charge any fee for protective equipment prescribed by him but may charge for equipment under the following conditions:
  - Where the employee requests additional issue in excess of what is prescribed;
  - o Where the employee has patently abused or neglected the equipment leading to early failure; and
  - Where the employee has lost the equipment.

All employees shall, as a minimum, be required to wear the following personal protective equipment on any of Johannesburg Water SOC Ltd's projects:

- Protective overalls;
- Protective footwear;
- Protective headwear; and
- Eye, hand, face and ear protection.
- NO SHORTS OR DRESSES WILL BE ALLOWED ON SITE!!!

All Personal Protective Equipment will clearly display the branding components of the Principal Contractor's organization (e.g. Name of Organization, logo).

### 12 DISCIPLINARY PROCESSES

- The contractor is required to implement disciplinary process in order to enforce compliance with requirements.
- All sub-contractors are required to have the same.

### 13 SITE RULES

- The Principal Contractor must develop a set of site-specific OH&S rules that will be applied to regulate the Health and Safety Plan and associated aspects of the construction.
- When required for a site by law, visitors and non-employees upon entering the site shall be issued with the proper Personal Protective Equipment (PPE) as and when necessary.

### 14 PUBLIC HEALTH AND SAFETY

The Principal Contractor is responsible for ensuring that non-employees affected by the construction work are made aware of the dangers likely to arise from the construction work as well as the precautionary measures to be observed to avoid or minimise those dangers. This includes:

- Non- employees entering the site for whatever reason;
- · The surrounding community; and
- Passers-by the site.
- The Principal Contractor shall organize the site in such a manner that pedestrians and vehicles can move safely
  and without risks to health, including sufficient and suitable traffic routes and safe walkways with relevant signage.

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- Appropriate signage must be posted to this effect and all employees on site must be instructed to ensure that nonemployees are protected at all times.
- All non-employees entering the site must receive induction into the hazards and risks of the site and the control
  measures to be observed.
- The Principal Contractor shall recognize that the Community Liaison Officer (CLO) is the link between Johannesburg Water SOC Ltd and the community and provide all reasonable support to the Community Liaison Officer to ensure relevant responsibilities are fulfilled and positive relationships with the community are maintained.
- Where activities are performed close to public routes, the Principal Contractor will establish a traffic management plan incorporating the requirements of relevant by-laws. At a minimum, barricading, warning signage and flagmen will be provided to ensure the protection of workers from vehicles in transit. Where required, the Principal Contractor will interact with the local traffic department to establish minimum requirements to be implemented on public routes.

### 15 REFUSAL TO WORK

- Section 14 of the OHS Act states that employees shall carry out any lawful orders given to them, suggesting that they have the right to refuse to obey any unlawful order or work instruction.
- In terms of legal and JW requirements, if an employee has reasonable belief that the work to be carried out is likely to endanger themselves or other persons in any way, he/OHS has the right to refuse to work.
- An employee may also refuse to work in term of Section 29 of NEMA, if the work would result in imminent and serious threat to the environment.
- All contractors shall ensure that their employees are conversant with hazards associated with their work and work
  environment, and be aware of the precautionary measures to take.
- The contractor must ensure that all refusals to work are investigated promptly and resolved timeously.

### **16 WELFARE FACILITIES**

The employer needs to provide his employees with the following:

- Potable water for drinking;
- · Water and soap for hand washing
- Toilet paper
- · Arrangements for toilets while working on site

### 17 COMPLIANCE MONITORING

### 20.1 Inspections

- Contractors will be inspected at least once per week by the JW Safety Practitioners.
- Feedback of the inspections will be issued immediately on work instructions, and a formal report sent within 7 days of conducting the inspection to all relevant stakeholders.
- Johannesburg Water SOC Ltd. Reserves the right to conduct other ad-hoc assessments and inspections as deemed necessary.
- This may include, amongst other measures, site safety walks. Corrective actions will be identified
  by Johannesburg Water SOC Ltd. And the Principal Contractor's representative and implemented
  by the Principal Contractor (at no cost to Johannesburg Water SOC Ltd.) to ensure OHS
  Performance improvement.

### 20.2 Monthly audits

• Monthly audits will be conducted within periods not exceeding 30 days.

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- The Principal Contractor is to conduct his own monthly internal audits and inspections to verify compliance with his own occupational health and safety plan and management system as well as compliance with the requirements of the Johannesburg Water SOC Ltd. OHS Specification.
- The Principal Contractor will also assess and inspect the compliance of other contractors under its control. Management members of the Principal Contractor will be involved in the internal assessments and inspections.

### 20.2.1 Monthly compliance rating

A monthly compliance rating will be calculated for each Principal Contractor as per a formula determined by Johannesburg Water SOC Ltd focussing on or incorporating outcomes of assurance (e.g. monthly audit), operational (e.g. behavioural based safety inspection) assessments and other requirements, as necessary. Johannesburg Water SOC Ltd reserves the right to adjust the monthly compliance calculation formula as and when required – each revision of the monthly compliance calculation formula will be communicated to the Principal Contractor before implementation.

Each Principal Contractor is required to maintain a minimum compliance rating of 93% (Ninety Three Percent).

Scoring	Classification	Classification description
93% -100%	Good	Substantial compliance
80% -92%	Average	Compliance status needs to be improved
60% - 79%	Poor	Methods to ensure compliance require substantial improvement – operations with substantial non-compliance risks
<60%	Very poor	Methods to ensure compliance failed completely – troubled operation with severe non-compliance risks

### 20.3 Work stoppages

Work stoppages will be identified for 2 (two) types of work stoppages to be implemented:

- Overall work stoppage the Principal Contractor and its Contractors are not allowed to continue with any type of construction / site work up until the work stoppage has been closed-out;
- Activity work stoppage The Principal Contractor and its Contractors are not allowed to continue with the specific activity / task / job up until the work stoppage has been closed-out.

Overall work stoppages will be issued where non-conformances are identified against the criteria in the following table.

NR	DESCRIPTION OF AUDIT NON-CONFORMANCE / NON-COMPLIANCE
1	PROOF OF REGISTRATION WITH COMPENSATION COMMISSIONER
1.1	Proof of registration with Compensation Commissioner or other insurer not available
1.2	Registration with Compensation Commissioner or other insurer not valid and up-to-date
2	POLICY COMMITMENT & OHS SPECIFICATION
2.1	OHS Plan not compiled, approved by contractor management and available on site
3	SECTION 37(2) AGREEMENT

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NR	DESCRIPTION OF AUDIT NON-CONFORMANCE / NON-COMPLIANCE
3.1	Signed section 37(2) Agreement not signed and available on site
4	RISK ASSESSMENTS
4.1	Risk assessments not developed/ not applicable to scope of work issued by Client
5	CONSTRUCTION MANAGER
5.1	No construction manager appointed / available on site
5.2	Appointed construction manager does not meet requirements
5.3	Proof of competency not available on-site
6	SITE SAFETY OFFICER
6.1	No safety officer appointed/ available on site
6.2	Safety officer does not meet requirements
7	OHS FILE
7.1	No file on site

<u>Activity work stoppages</u> will be issued where non-conformance are identified per activity where the health and safety of employees or the public is compromised.

### 20.4 Non-compliance management process

The following actions will be instituted where non-conformances are identified in terms of compliance to relevant legislative requirements and the Johannesburg Water SOC Ltd OHS Specification.

CRITERIA	ACTION TO BE INSTITUTED	RESPONSIBLE PARTY
Compliance rating: 93-100%	Non-conformance closure	Principal Contractor / Contractor
Compliance rating: 80-92%	Letter of compliance improvement to Principal Contractor	Johannesburg Water SOC Ltd
	Non-conformance closure	Principal Contractor / Contractor
Compliance rating: 60-79%	Non-compliance hearing	Johannesburg Water SOC Ltd
	Letter of commitment for performance improvement	Principal Contractor / Contractor
	Non-conformance closure	Principal Contractor / Contractor
Compliance rating: <60%	Non-compliance hearing	Johannesburg Water SOC Ltd
	Letter of commitment for performance improvement	Principal Contractor / Contractor
	Non-conformance closure	Principal Contractor / Contractor
	Supply Chain Management to be informed of non-compliance standing	Johannesburg Water SOC Ltd

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CRITERIA	ACTION TO BE INSTITUTED	RESPONSIBLE PARTY
3 x Work stoppages	Non-compliance hearing	Johannesburg Water SOC Ltd
	Letter of commitment for performance improvement	Principal Contractor / Contractor
	Non-conformance closure	Principal Contractor / Contractor
	Supply Chain Management to be informed of non-compliance standing	Johannesburg Water SOC Ltd
3 x Non-conformance to <93% monthly compliance rating	Non-compliance hearing	Johannesburg Water SOC Ltd
	Letter of commitment for performance improvement	Principal Contractor / Contractor
	Non-conformance closure	Principal Contractor / Contractor
	Supply Chain Management to be informed of non-compliance standing	Johannesburg Water SOC Ltd
3 x consecutive repeat findings	Non-compliance hearing	Johannesburg Water SOC Ltd
	Letter of commitment for performance improvement	Principal Contractor / Contractor
	Non-conformance closure	Principal Contractor / Contractor
	Escalation to SCMU & CAPEX	Johannesburg Water SOC Ltd

### 21 OPERATIONAL REQUIREMENTS

### 21.1 HAZARDOUS BIOLOGICAL AGENTS

- Any person who is or might be exposed to HBA, shall obey any lawful instruction given by or on behalf of the contractor regarding
  - the prevention of an uncontrolled release of an HBA;
  - the adherence to instructions regarding environmental and health practices, personal hygiene and good housekeeping;
  - the appropriate use of personal protective equipment and clothing as prescribed by these Regulations;
  - the appropriate use of personal samplers, when necessary, to measure personal exposure to airborne hazardous biological agents; (
  - the disposal of materials containing HBA, and the disinfection and decontamination of any site contaminated by an HBA;
  - the reporting during normal working hours for such medical examination or tests; and
  - information and training
- The contractor shall conduct a risk assessment to determine if any exposure to HBA occurred, and review as necessary.
- The contractor shall ensure that the exposure of employees to a HBA is regularly monitored in accordance with a validated procedure.
- The contractor shall ensure that a suitable record of monitoring carried out is made and maintained and that record or a suitable summary thereof is kept –
  - where the record is a representative of the personal exposures of identifiable employees, must be kept for at least 40 years; or
  - where an employee is required to be under medical surveillance, an individual record of any monitoring carried out in accordance with this regulation shall be made, maintained and kept in respect of that employee.

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- Ensure that employees undergo medical surveillance where there is evidence of exposure to HBAs
- Records of risk assessments, medical surveillance, training and monitoring results for a period of 40 years.
  - An employer and self-employed person shall ensure that—
  - As a result of their activities, exposure of persons to HBA in the working environment is either
    prevented or, where this is not reasonably practicable, controlled such that exposure is highly
    improbable; and
  - The following standard precautions are implemented to reduce the risk of transmission of HBA from recognized and unrecognized sources of infection in a workplace:
    - Hand washing
    - Gloves
    - Face or eye protection
    - Protective clothing
    - Safety equipment
    - Environmental controls

### 21.2 CONFINED SPACE ENTRY

- Enclosed space work necessitates a Confined Space Permit. This may only be obtained from the authorized person nominated in writing.
- The responsibility for safe procedure, both at the time of entry and during the entire operation of entering and working in confined spaces, rests with the Contractor.
- The Contractor shall be sure that adequate steps have been taken to eliminate or control hazards.
- Before working in an area that contains dust, the area is to be ventilated and hosed down to settle and dampen the dust.
- The Contractor shall provide all necessary equipment to manage confined spaces, including all necessary monitoring and rescue equipment (such as tripods, breathing equipment and the like).
- The Contractor shall ensure all persons working in a confined space or managing entry to a confined space are appropriately trained.
- Compulsory Continuous monitoring, trained rescue teams, radio communication & adequate ventilation.

### 21.3 BARRICADING

- Barricading plans are to be presented by the Principal Contractor for any major operations involving site works for approval by Johannesburg Water SOC Ltd. Where areas are unsafe, they should be enclosed with barricading. Examples are people working overhead, welding splatter etc.
- Where there is a risk of injury, the area should be barricaded off with secure solid barricades.
- Barricading for the prevention of access into areas with a potential risk of injury shall as a minimum be
  constructed of a handrail, knee-rail and appropriately supported as to prevent any person from falling into the
  restricted/risk area.
- Appropriate signage shall be affixed to the barricade indicating the risk associated (i.e. deep excavation, lifting
  operations etc.) and the responsible Supervisor and contact details shall be displayed. All barricading shall
  have a "No Entry" signs on all sides and at each change of direction. Signage shall be placed at 20 m intervals
  where lengths exceed. All signage shall be a minimum size of 290 mm x 290 mm.
- Danger tape shall not be utilised to prevent personnel from entering into areas.
- Where no risk exists of injury to personnel such as stacking and storage areas, the use of wire for hand and knee rails netting shall be acceptable to demarcate the area.
- All barricades will have a dedicated entrance where it is required that personnel enter the areas.
- Appropriate signage shall be placed at the entrance indicating which Contractor has right of entry.
- It is the Contractor's responsibility to remove all redundant barricades directly after use. The Contractor's Safety Officers will maintain a marked-up site plan indicating where barricades are erected.
- It will be a requirement that the contractor protects employees against contact with exposed rebar and poles by the installation of rebar-caps on all exposed areas where there is a potential that an employee could be injured.

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### 21.4 SYMBOLIC SIGNGAGE

Contractors shall use mandatory and prescribed symbolic safety signs at their lay down and site areas. The display of the following signs is mandatory:

- "Radio-Active Material" symbolic signs at radioactive storage areas.
- "Eye Protection" symbolic signs shall be displayed at all grinding machines and at any area where it is mandatory to wear eye protection or where there is danger of an eye injury being sustained.
- "Ear Protection" symbolic signs shall be displayed at all areas where there is a danger of noise induced hearing loss being sustained.
- Every separate room of a workplace shall be consecutively numbered.
- All toilets or urinals shall be marked in a conspicuous place with painted or stencilled letters to indicate the sex for which they are intended.
- The location of every first aid box is to be clearly indicated by means of a sign.
- In any room, cabinet or enclosure where flammable substances are used or stored shall be fixed a suitable and conspicuous sign prohibiting smoking or the use of naked flames in the area.
- At the entrance to premises where machinery is used
- Restricted access on "Authorised Person Only" signs on entry. "No person shall enter the workplace or premises without the permission of the employer or user of the machinery".
- At every place where machinery is used a notice (English & Pictograms) shall be posted.
- Explosive Power Tool shall have a sign warning people when it is in use.
- Electrical Control Gear. A notice shall be posted so as to warn against the re-closing of a switch of control gear whilst a person is working on such equipment.
- Emergency contact telephone numbers.
- Adequate scaffolding signs. (When applicable).
- Adequate fire fighting equipment signs.
- · Speed limit signs.
- Warning notices at openings through which people may fall.
- Risk based signage depending on the task being performed e.g.:
  - o "Men working above", "Men working below', "Road closed detour", "Excavation in progress", "No walkway" etc.;
- No-entry signs to incomplete platforms

The Principal Contractor shall install a notification board indicating the following information at the site entrance:

- Johannesburg Water SOC Ltd project number;
- Principal Contractor identification details (name, telephone number)
- Name and contact details of Construction Supervisor:
- Name and contact details of site safety officer;
- Monthly compliance rating:
- Lost Time Injury Rate;

The Principal Contractor will ensure that information on the notification board is kept up-to-date.

### 21.5 USE AND STORAGE OF FLAMMABLES

The Principal Contractor to ensure that:

- No person is required or permitted to work in a place where there is the danger of fire or an explosion due to flammable vapours being present unless adequate precautions are taken;
- No flammable material is used or applied e.g. in spray painting, unless in a room or cabinet or other enclosure specially designed and constructed for the purpose unless there is no danger of fire or explosion due to the application of adequate ventilation;
- The workplace is effectively ventilated. Where this cannot be achieved:
  - Employees must wear suitable respiratory equipment
  - No smoking or other source of ignition is allowed in the area

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- The area is conspicuously demarcated as "flammable"
- Flammables stored on a construction site are stored in a well-ventilated, reasonably fire-resistant container, cage or room that is kept locked with access control measures in place. Sufficient fire fighting equipment is installed and fire prevention methods practiced. Proper housekeeping may achieve this;
- Flammables stored in a permanent flammable store are stored so that no fire or explosion is caused.
- Stored in a locked and well-ventilated reasonably fire resistant container, cage or room conspicuously demarcated as "Flammable Store – No Smoking or Naked Lights"
- The flammables store to be constructed of two-hour fire retardant walls and roof and separated from adjoining rooms or workplaces by means of a two-hour fire retardant fire wall
- Adequate and suitable fire fighting equipment installed around the flammables store and marked with the prescribed signs
- All electrical switches and fittings to be of a flameproof design
- Any work done with tools in a flammable store or work areas to be of a non-sparking nature
- No Class A combustibles such as paper, cardboard, wood, plastic, straw and the like to be stored together with flammables
- The flammable store to be designed and constructed such that in the event of spillage of liquids the store is able to contain the full quantity + 10% of the liquids stored
- A sign indicating the capacity of the store to be displayed on the door
- Only one day's quantity of flammable is to be kept in the workplace;
- Containers (including empty containers) to be kept closed to prevent fumes/vapours from escaping and accumulating in low lying areas;
- Metal containers to be bonded to earth whilst decanting to prevent build-up of static forces; and
- Welding and other flammable gases to be stored segregated according to the type of gas and empty and full cylinders.

### 21.6 HAZARDOUS CHEMICAL SUBSTANCES

The Principal Contractor must ensure that:

- Employees receive the necessary information and training to be able to use and store hazardous chemical substances safely;
- Employees obey lawful instructions regarding:
  - The wearing and use of protective equipment
  - o The use and storage of hazardous chemical substances
  - o The prevention of the release of hazardous chemical substances
  - The wearing of exposure monitoring and measuring equipment
  - o The cleaning up and disposal of materials containing hazardous chemical substances
  - Housekeeping, personal hygiene and the protection of the environment
- The risk assessments required in terms of Construction Regulation include employee exposure to hazardous chemical substances and that the necessary measures be taken to protect persons from being detrimentally affected by hazardous chemical substances present or used in the workplace;
- Suppliers provide the necessary information in the form of a material safety data sheet regarding a hazardous chemical substances required to ensure the safe use and storage of that substances;
- An up-to-date list is kept on site of hazardous chemical substances stored and used together with the material safety data sheet of the hazardous chemical substances;
- Hazardous chemical substances containers be clearly marked with the contents and main hazardous category
  e.g. "Flammable" or "Corrosive" and the reference number of the hazardous chemical substances on the list
  indicated above;
- Hazardous chemical substances, for example asbestos dust, are not cleared by using compressed air but should be vacuumed;
- No person eats or drinks in a hazardous chemical substances workplace; and
- Hazardous chemical substances waste is disposed of safely in terms of hazardous waste disposal requirements.
- MSDS's to be in 16 point format- available on site

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### 21.7 FIRE PREVENTION AND PROTECTION

The Principal Contractor must ensure that:

- The risk of fire is avoided;
- Sufficient and suitable storage for flammables is provided;
- Sources of ignition are removed wherever flammable or highly combustible material is present in the workplace, for example:
  - Notices prohibiting smoking are displayed and enforced
  - Welding and flame cutting is only allowed under controlled conditions that includes written hot work permits
  - Only spark-free hand and power tools are used
  - No grinding, cutting and shaping of ferrous metals is allowed using electrically driven power tools that produce sparks
  - Flameproof switches and fittings are to be used in the flammable atmosphere
  - Good housekeeping is maintained to prevent the accumulation of unnecessary combustibles
  - Adequate ventilation is maintained
  - Adequate and suitable fixed and portable fire fighting equipment is provided and maintained in good working order.
- Maintenance must include:
  - Regular inspection of fire equipment by a competent person appointed in writing and keeping a register
  - o Annual inspection and service by an accredited service provider
- All employees are instructed in the use of the fire fighting equipment and know how to attempt to extinguish a
  fire:
- A sufficient number of employees are appointed and trained to act as an emergency team to deal with fires and other emergencies;
- Employees are informed regarding emergency evacuation procedures and escape routes;
- Emergency escape routes are kept clear at all times and clearly marked:
- · Evacuation assembly points are demarcated;
- Evacuation is practiced to ensure that all persons are evacuated timeously;
- Roll call is held after evacuation to account for all personnel and ensure that no-one has been left behind; and
- A siren or alarm is fitted which is clearly audible to all persons on site.

### 21.8 HOUSEKEEPING

The Principal Contractor to ensure that:

- Housekeeping is continuously implemented and maintained;
- Materials and equipment are properly stored;
- Scrap, waste and debris is removed regularly;
- Materials placed for use are placed safely and not allowed to accumulate or cause obstruction to the free-flow of pedestrians and vehicular traffic;
- Waste and debris not to be removed from heights by throwing but rather by chute or crane;
- Where practicable, construction sites are fenced off to prevent entry of unauthorised persons;
- Catch platforms or nets are erected over entry and exit ways or over places where persons are working to prevent them being struck by falling objects;
- An unimpeded work space is maintained for every employee;
- Every workplace is kept clean, orderly and free of tools, materials and the like that are not required for the work being done;
- As far as is practicable, every floor, walkway, stair, passage and gangway is kept in good state of repair, skidfree and free of obstruction, waste and materials;

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- The walls and roof of every indoors workplace sound and leak-free; and
- Openings in floors, hatchways, stairways and open sides of floors or buildings are barricaded, fenced, boarded over or provided with protection to prevent persons from falling.

### 21.9 PUBLIC HEALTH AND SAFETY

The Principal Contractor is responsible for ensuring that non-employees affected by the construction work are made aware of the dangers likely to arise from the construction work as well as the precautionary measures to be observed to avoid or minimise those dangers. This includes:

- Non- employees entering the site for whatever reason;
- The surrounding community; and
- Passers-by the site.
- The Principal Contractor shall organize the site in such a manner that pedestrians and vehicles can move safely and without risks to health, including sufficient and suitable traffic routes and safe walkways with relevant signage.
- Appropriate signage must be posted to this effect and all employees on site must be instructed to ensure that non-employees are protected at all times. All non-employees entering the site must receive induction into the hazards and risks of the site and the control measures to be observed.
- The Principal Contractor shall recognize that the Community Liaison Officer (CLO) is the link between Johannesburg Water SOC Ltd and the community and provide all reasonable support to the Community Liaison Officer to ensure relevant responsibilities are fulfilled and positive relationships with the community are maintained.

### 21.10 TRAFFIC MANAGEMENT

- Where activities are performed close to public routes, the Principal Contractor will establish a traffic management plan incorporating the requirements of relevant by-laws.
- At a minimum, barricading, warning signage and flagmen will be provided to ensure the protection of workers from vehicles in transit.
- Where required, the Principal Contractor will interact with the local traffic department to establish minimum requirements to be implemented on public routes.

### 21.11 HAND TOOLS

The Principal Contractor must inspect all hand tools before it is brought onto the site.

- As far as possible all hand tools must be numbered and placed on register to be inspected monthly by a person designated to do so.
- Any tools found to be in an unsafe condition must immediately be removed from service and either discarded or rectified.
- No chisels with "mushroomed" heads must be used.
- No hammer shall be used with a cracked or damaged handle.
- All files must be fitted with handles.
- All trolleys, pushcarts, etc. used on site must be identifiable, placed on register and inspected at least once every month.
- Non-sparking tools must be used in areas where the risk of fire or explosion is present.
- No homemade hand tools are allowed on the project.
- All tools shall be attached to a suitable lanyard when utilised in elevated positions

### 21.12 LADDERS

The following requirements for ladders will apply:

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- All ladders used on the site shall be constructed and used in compliance with the OH&S Act and Regulations.
- Ladders, which provide access to a working platform, shall extend one metre above the platform where it
  provides access, and shall be secured to prevent slipping.
- Timber ladders shall not be painted other than with clear preserving oils, clear varnishes or clear plastics.
- Ladders, which are in a damaged condition, shall not be used and shall be labelled accordingly and removed from the Premises.
- All Ladders shall be numbered, logged in a register, and inspected monthly.
- A ladder in use shall be held by an assistant and/or properly tied down in position.
- Only ladders that do not conduct electricity shall be used in live electrical sub-stations and switching rooms.
- Ladders shall be removed after use and stored in an appropriate facility as to not expose them unnecessarily
  to the elements or potential damage by surrounding activities.

### 21.13 CONSTRUCTION VEHICLES AND MOBILE PLANT

Johannesburg Water SOC Ltd will inspect construction vehicles and mobile plant prior to being allowed on a project site. Suppliers of hired vehicles, plant and equipment will be required to comply with this specification as well as the Occupational Health and Safety Act (Act no. 85 of 1993) and Regulations.

Construction vehicles and mobile plant to be:

- Of acceptable design and construction;
- Maintained in good working order;
- Used in accordance with their design and intention for which they were designed;
- Operated and/or driven by trained, competent and authorised operators/drivers. No unauthorised persons are to be allowed to drive construction vehicles and mobile plant;
- Provided with safe and suitable means of access;
- Fitted with adequate signalling devices to make movement safe including reversing;
- Provided with roll-over protection (where applicable);
- Inspected daily before start-up by the driver, operator and/or user and the findings recorded in a register/log book;
- Fitted with two head and two tail lights that are in good working condition and must be used whilst operating
  under poor visibility conditions:
- When used for transporting persons must have seats firmly secured and sufficient for the number of persons being transported.

Operators and drivers of construction vehicles and mobile plant must be in possession of a valid medical certificate declaring the operator and/or driver physically and psychologically fit to operate or drive construction vehicles and mobile plant.

No loose tools, materials etc. are allowed in the driver and/or operators compartment/cabin or in the compartment in which any other persons are transported.

No person shall ride on any construction vehicle or mobile plant otherwise than in a safe place provided thereon for that purpose. Employees shall only be transported if provision for seating and safety belts has been provided with an adequate canopy or rollover protection.

All construction vehicles and mobile plant left unattended at night, adjacent to a freeway in normal use or adjacent to construction areas where work is in progress, must have appropriate lights or reflectors, or barricades equipped with appropriate lights or reflectors, in order to identify the location of the vehicles or plant.

Bulldozers, scrapers, loaders, and other similar mobile plant must, when being repaired or when not in use, be fully lowered or blocked with controls in a neutral position, motors stopped and brakes set.

### Self-Propelled Mobile Machinery

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All Self-Propelled Mobile Machinery must be inspected daily and the findings recorded in a register. Pre-use inspection checklist shall identify critical items that would stop the operator from operating machinery should a defect be detected.

All operators shall be tested on their ability to operate machinery and equipment inspected prior to be used on any of the premises by the Johannesburg Water SOC Ltd Project Inspectors and Responsible Engineer. Relief drivers shall be made available for mobile machinery where there is a need for on-going operations and the contractor shall establish a rotation schedule.

All Drivers/Operators shall be appointed under the applicable legislation prior to operating any type of mobile equipment or machinery:

- If Driver/Operator does not adhere to the rules and regulations his appointment as operator shall be cancelled and he shall not be able to carry on with his duty.
- No Driver/Operator shall be appointed without proof of training, driver's licence or letter of competency.
- No training of Drivers/Operators on Site.
- No passengers on dump truck, Loaders or Excavators.
- No eating or drinking allowed while operating equipment.
- No vehicle shall be left unattended with engine running or key in ignition.
- Drivers may use no cellular phones during operations.

### **Equipment Approval**

Authorization for the use of equipment shall be given in writing only after the following minimum requirements and documentation have been verified and shall as a minimum include the following:

- Minimum two lights in front and rear of vehicle
- Communications system (where required):
- Reflective Taping;
- First-aid kit, fire-fighting equipment and emergency roadside triangles:
- Tyres in good condition;
- Windscreen clear of cracks;
- Safety belts fitted for all occupants;
- Signage for clear identification;
- Windscreen wipers;
- Warning hooter and reverse alarm:
- Rotating warning lights (where applicable);
- Maximum number of persons indicated;
- Equipment free of oil and other leaks:
- Maintenance/Service & Equipment manuals available;

### Operator Approval

Authorization for operators for the use of equipment shall be given in writing only after the following minimum requirements and documentation have been verified and shall as a minimum include the following:

- Operator's Certificate (accredited training organisation);
- Operators Licence appropriate to the nature of the Mobile equipment;
- Operator's knowledge tested and familiar with the controls for the vehicle;
- Public driver's permit where required;
- Medical fitness certificate.

### 21.13.1 Truck Specifications

- The load body shall be large capacity unit with "struck-back" with a minimum capacity of 30m³. The load body
  shall be a large tri-axle unit equipped with a tailgate, which shall automatically open and close with the raising
  and lowering of the body. An additional acceptable safety mechanism is required to prevent spillages in transit.
- The sloper tipper truck will consist of a front unit incorporating the driver's cabin, engine and transmission and

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hydraulic power units, which will be connected to the load body unit via a hinge arrangement. All movements between front and rear units shall be hydraulically actuated and controlled by the driver in the cab.

- The front unit shall have a box-section frame, which will carry the engine, transmission and the driver's cab and will locate the front suspension. The hinge unit between the front and rear units shall provide articulation to allow the sloper tipper truck to be steered but shall also allow rotation to ensure that all wheels remain in contact with the ground under all load conditions.
- The load body shall be carried on a box-section rear frame, which shall carry the load body and will locate the two rear suspension units and be connected to the front unit via the hinge. Horses to be equipped with a double differential (6x4).
- The front axle shall be pivoted at its center point to allow movement in the vertical plane. The tow rear axles shall be connected via A-frames and lateral tie rods to ensure large angular movements and independent wheel movements.
- The driver's cab shall be fully enclosed and lockable and be of the Roll over Protection Structure type. The cab shall provide logical convenient placement and operation of all the controls to limit driver fatigue. The cab shall be fitted with large laminated front windshield and tinted glass side and rear windows. The cab shall have an air ventilation system delivering pressurized filtered air, be heated and provided with a windscreen demister and shall be insulated against noise and temperature.
- The sloper truck shall be monitored by the operator on all critical machine functions and alert the driver before major mechanical electrical failures occur by an onboard electronic monitoring system.
- An active satellite management system must be installed in all vehicles to record trip positions (including
  offloading position, date time route and distances travelled). A tracker report or macrograph with detailed
  information is also acceptable. This information must be accessible to JW within 24 hours of a request during
  the contract term.
- The following standard equipment shall be provided on the tipper truck:
  - Back-up audible alarm
  - o Battery boxes which must be lockable
  - Headlights with dip control
  - Electric hooter
  - Cab interior lights
  - Side lights, reversing lights, taillights and rear brake lights, direction indicator lights and hazard
     warning lights at front and rear of machine
    - Left and right rear-view mirrors
  - o Two speed windscreen and rear window wipers and washer units
  - Lockable filler caps on fuel tank, engine oil, hydraulic oil tanks and radiator
  - o Lockable drain plugs on engine oil sump; transmission drain plugs and radiator
  - Spare wheel including tyre
  - Adjustable seat
  - Sun visor

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- Lockable toolbox with standard tool kit
- Front and rear tow pings
- Inter- axle differential lock
- Parking brakes
- o Electronic monitoring system panel shall contain the following instrumentation:
  - ✓ Coolant temperature
  - ✓ Retarder oil temperature
  - ✓ Brake-on light

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- ✓ Alternator failure light
- ✓ Fuel filter blockage indication and
- ✓ Fuel level gauge
- ✓ Running hour meter

### 21.13.3 DOCUMENTATION OF PLANT

The following documents are required for desludging plant offered:

- a) Proof of valid Certificate of Registration (RC1) in Respect of Motor Vehicle (as per National Road Traffic Act)
- b) Proof of an actual (This is not a cutout document) valid license disc and a Roadworthy certificate issued within 12 months prior to tender closure (as per National Road Traffic Act).
- c) Valid Insurance per plant

### **21.13.4 OPERATORS**

- a) The operator must carry out faithfully, efficiently and with due diligence all operations according to the instructions of the relevant JW Manager or representative.
- b) Without first obtaining the written consent of the service provider, the relevant JW Manager or representative shall not permit or allow any person other than the operator or mechanic to operate any item of plant.
- c) Only skilled operators may be employed with valid professional driving permits and any operator found to be unsuitable must be replaced immediately upon notification.
- Post award, the service provider will be required to submit the following documentation for their skilled operators.
  - i. A valid medical certificate (Operator must be fit for duty).
  - ii. A valid Driver's License with professional driving permit PrDP (Minimum Code C1 License or higher).
  - iii. Documentation indicating experience of a minimum of 6 months as a driver.
- e) The service provider shall ensure that an Operator is provided to work during stand by and over time as agreed upon with the relevant JW manager while taking into consideration, the statutory limits for the number of working hours per week for an individual, as prescribed by the Department of Labour.
- f) Where an Operator was working on standby \ over-time during the previous night, the service provider will be required to provide another Operator to operate the plant during normal working hours on the following day. No driver / Operator will be allowed to work longer than the hours prescribed by the Department of Labour.

### 21.15 Fall protection (Working in elevated positions)

A pre-emptive risk assessment will be required for any work to be carried out above **two metres** from the ground or any floor level. This work will be classified as "work in elevated positions".

As far as is practicable, any person working in an elevated position will work from a platform, ladder or other device that is at least as safe as if he is working at ground level. Whilst working in this position he shall be wearing a single belt with lanyard to prevent the person falling from the platform, ladder or other device. This safety belt will be, as far as is possible, secured to a point away from the edge over which the person might fall and the lanyard must be of such a length and strength that the person will not be able to move over the edge.

Alternatively, any platform, slab, deck or surface forming an edge over which a person may fall may be fitted with suitable guard rails at two different heights as prescribed in the relevant South African National Standard for the design, erection, use and inspection of access scaffolding.

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Where the requirement in the paragraph above is not practicable, the person will be provided with a full body harness that will be worn at all times and shall be attached above the wearer's head at all times. The lanyard must be fitted with a shock-absorbing device or the person must be attached to a fall arrest system (anchorage connector; body wear; and connecting device) approved by Johannesburg Water SOC Ltd.

Where the requirements in the paragraph above are not practicable, a suitable catch net must be erected.

Employees working in elevated positions must be trained to work without risk to their health and safety or to the health and safety of others and be declared medically and psychologically fit to perform work at elevated positions. Where work on roofs is carried out, the risk assessment must take into account the possibility of persons falling through fragile material, i.e. skylights and openings in the roof.

### 22. Monthly reporting

- The Principal Contractor is required to provide Johannesburg Water SOC Ltd. with a monthly report in the format provided on the last working day of the month.
- The report will include the monthly man-hours, incidents, training, inductions, audits, etc

### 23. Project close out

 Upon completion of the project, the contractor is required to hand over a consolidated project file to the Client with all the working documents for retention.



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### ANNEXURE 1: BASELINE RISK ASSESSMENT



# BASELINE RISK ASSESSMENT



### **ACTIVITY: TRAVELLING TO VARIOUS SITES**

Task	Hazard	Risk	Consequence	Rating	Controls
Driving	<ul> <li>✓ Unsafe road conditions</li> <li>✓ Un-road worthy vehicles</li> <li>✓ Incompetent drivers</li> <li>✓ Driving under the influence of alcohol</li> <li>✓ Inclement weather</li> <li>✓ Speeding</li> <li>✓ Slippery road</li> <li>✓ Poor visibility</li> <li>✓ Distraction</li> <li>✓ Fatigue</li> </ul>	<ul> <li>✓ Overturning vehicles</li> <li>✓ Vehicle collisions</li> <li>✓ Bumping into people, properties and objects</li> </ul>	✓ Injuries ✓ Property damages ✓ Third party liability	Н	<ul> <li>✓ Adherence to the speed limit</li> <li>✓ Only competent/ authorised drivers should operate the vehicle</li> <li>✓ Inspection of vehicles</li> <li>✓ Ensure that the truck is not overloaded</li> <li>✓ Alcohol testing to be done</li> <li>✓ Awareness on the dangers of texting and driving</li> <li>✓ Ensure that all employees get enough rest in between shifts</li> </ul>
Parking in or near the road	<ul> <li>✓ Moving vehicles</li> <li>✓ Speeding</li> <li>✓ No signage</li> <li>✓ Improperly placed signage</li> </ul>	<ul> <li>✓ Road accidents</li> <li>✓ People getting knocked down by cars</li> </ul>	<ul><li>✓ Fatalities</li><li>✓ Serious         <ul><li>injuries</li><li>✓ Property         <ul><li>damages</li></ul></li></ul></li></ul>	Н	<ul> <li>✓ Adhere to traffic management procedures</li> <li>✓ Ensure good communication between flagmen</li> <li>✓ Obey speed limits</li> <li>✓ Display correct road signage</li> <li>✓ Employees should wear reflective PPE .</li> <li>✓ Keep area clean &amp; clear of obstacles.</li> </ul>



Task	Hazard	Risk	Consequence	Rating	Controls
Operating the truck	✓ Noise	Exposure to noise >85DB(A)	✓ Noise induced hearing loss	M	<ul><li>✓ Provide employees with proper hearing protection.</li><li>✓ Regular maintenance of trucks and equipment</li></ul>
Loading the sludge	✓ Dust from sludge	✓ Inhalation	✓ Respiratory problems		✓ Provide employees with dust masks
Parking for loading / offloading	✓ Slope	✓ Uncontrollable movement	✓ Property damages ✓ Injuries	Н	<ul><li>✓ Provide stop blocks when parking trucks</li><li>✓ Ensure that the ignition is off</li></ul>
Using steps to go up the truck	✓ Slippery steps ✓ Damaged steps	✓ Trip and fall	✓ Injuries	L	<ul> <li>✓ Inspect steps prior to use</li> <li>✓ Remove any materials from steps prior to climbing</li> <li>✓ Provide employees with anti-slip safety shoes</li> <li>✓ Use of steps which are constructed from slip resistant grating with sufficient space for mud or oil etc to pass through the grate.</li> <li>✓ Rungs/steps level with adequate toe/foot hold, easily cleaned.</li> </ul>
Working at night	✓ Reduced / insufficient lighting	✓ Poor visibility	✓ Injuries	M	✓ Provide extra lighting may be required for night works or when there is poor visibility
Maintenance of trucks	✓ Moving parts	✓ Entanglement ✓ Pulling in	✓ Injuries ✓ Death	Н	<ul> <li>✓ Only trained competent personnel to carry out maintenance operations.</li> <li>✓ Guards to be removed by trained personnel only for maintenance and servicing purposes.</li> <li>✓ Do not remove guards during operations</li> <li>✓ Daily inspections to be carried out by personnel trained and competent in plant operations.</li> </ul>



		11011/1110	1 2141111111111111111111111111111111111	
Task	Hazard	Risk	Consequence	Rating Controls
				<ul> <li>✓ Keep hands, feet, hair, and clothing away from moving parts. Contact with a moving mechanism can cause entanglement that can lead dismemberment or death.</li> <li>✓ Read operators manual</li> </ul>
Refuelling	✓ Ignition sources	✓ Contact with fuel	✓ Fatalities ✓ Property damages	H  ✓ Use equipment only in well ventilated area ✓ Eliminate all ignition sources such as pilot lights, cigarettes, portable electric lamps and plastic drop cloths (potential static arc) ✓ Keep work area free of debris, including solvent rags and gasoline ✓ Do not plug or unplug power cord, or turn power or light switches on or off when flammable fumes are present ✓ Ensure isolation of the plant and equipment prior to all works including refuelling ✓ Ground all equipment in work area (refer to instructions in operator's manuals) ✓ Keep a working fire extinguisher in work area at all times (Water fog or fine spray, foam, carbon dioxide or dry chemical powder.) are suitable. ✓ An appropriate properly fitted respirator, which may include an air supply ✓ Ensure you read the operators manual prior to using the plant ✓ Ensure a risk assessment is carried out of the refuelling depot.



Task	Hazard	Risk	Consequence	Rating	Controls
Operations	<ul> <li>✓ Working platform</li> <li>✓ No proper stairs</li> <li>✓ No guardrail</li> <li>✓ Slippery surfaces</li> </ul>	✓ Trip and fall	✓ Injuries	L	<ul> <li>✓ Nonslip surface</li> <li>✓ Guardrails or suitable edge protection in place</li> <li>✓ 3 point of contact warning decal fitted</li> <li>✓ Ladder fitted at the back of truck</li> <li>✓ Ensure that the Handrail has been erected on the platform prior to climbing up.</li> <li>✓ Also ensure that the plant is isolated to prevent uncontrolled movement of the boom.</li> <li>✓ Tidy up as you go</li> <li>✓ Keep hoses and pipe to the side to reduce the chance of tripping over them.</li> <li>✓ Clean footwear of mud and debris prior to climbing onto the platform to reduce slips</li> <li>✓ Do not climb onto the truck when in motion</li> <li>✓ Also read the operators manual prior to using plant.</li> <li>✓ Use three points of contact when climbing ladder or onto plant</li> </ul>
Operating the truck	✓ Fumes	✓ Inhalation	✓ Respiratory problems	L	✓ An appropriate properly fitted respirator, which may include an air supply
Use of hand tools	✓ Repetitive movements	✓ Improper bending	✓ Back pains	L	✓ Training in correct posture during shovelling
	✓ Distance between employees	✓ Hitting each other with tools	✓ Injuries	M	✓ Ensure safe distance between employees



PROJECT DESCR:

### OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION: BASELINE RISK ASSESSMENT PROJECT NUMBER: JW OPS 005/25 PROJECT LOCATION: VARIOUS LOCATIONS WITHIN THE CITY OF JOHANNESBURG

TRANSPORTATION OF SEWAGE SLUDGE ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD

### **ACTIVITY: OPERATING THE TRUCK**

OF THIRTY-SIX (36) MONTHS..

Task	Hazard	Risk	Consequence	Rating	Controls
	✓ Damaged hand tools	✓ Contact with skin	✓ Injuries	L	✓ Inspect tools prior to use ✓ Provide employees with gloves
	✓ Loss of grip of tools	✓ Hitting other employees	✓ Injuries	M	<ul><li>✓ Train employees on the use of tools</li><li>✓ Provide gloves</li></ul>
General activities on site	✓ New employees / untrained employees	✓ Workers not informed of work-related hazards and risks	✓ Injuries	Н	✓ Site specific Induction training to be conducted on all personnel prior to commencing work.
Working near open spaces	✓ Snakes	✓ Bites ✓ Poisoning	✓ Fatalities ✓ Serious injuries	Н	<ul> <li>✓ Inspect the area for snakes prior to entering</li> <li>✓ Conduct snake awareness training</li> <li>✓ Know the do's and don'ts of what to do when coming across snakes</li> </ul>
	✓ Bees / wasps	✓ Bites	✓ Allergic reaction	M	<ul> <li>✓ Inspect the area for bees / wasps prior to entering</li> <li>✓ Conduct bees awareness training</li> <li>✓ Know the do's and don'ts of what to do when coming across bees</li> </ul>
	✓ Sharp objects	✓ Getting pricked by sharp objects	✓ Tetanus ✓ Injuries	M	<ul><li>✓ All employees to get Tetanus vaccination.</li><li>✓ Provide employees with proper safety boots</li></ul>
	✓ Criminals	✓ Getting mugged	✓ Loss of personal possession	M	<ul> <li>✓ Personal belongings such as phones and car keys to be safely put in pockets while working.</li> <li>✓ Employees to report any suspicious activities to the local police.</li> </ul>
					✓ Equipment to be safety stored while not in use



Task	Hazard	Risk	Consequence	Rating	Controls
	✓ Criminals	✓ Employees being attacked	✓ Injuries ✓ Fatalities	Н	<ul> <li>✓ Ensure that employees do not work in isolation.</li> <li>✓ Employees to report any suspicious activities to the local police.</li> <li>✓ Develop an emergency response procedure</li> </ul>



OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION: BASELINE RISK ASSESSMENT			
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### RISK ASSESSMENT MATRIX

Likelihood	Consequences				
	Insignificant (minor problem easily handled by normal day to day processes	Minor (Some disruption possible e.g.,damage equal to R150k	Moderate (significant time / resources required. E.g., damage equal to R500k	Major (Operations severely damaged. E.g., damages equal to R1m	Catastrophic (business survival is at risk. Damage equal to R5m – 10m
Almost certain (90% chance)	High	High	Extreme	Extreme	Extreme
Likely (between 50-90%)	Moderate	High	High	Extreme	Extreme
Moderate (between 10-50%)	Low	Moderate	High	Extreme	Extreme
Unlikely (between 3-10%)	Low	Low	Moderate	High	Extreme
Rare (<3%)	Low	Low	Moderate	High	High



OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION		
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### ANNEXURE 2: MEDICAL SCREENING POLICY

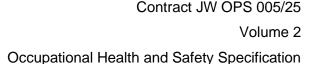


Occupational Health and Safety Specification
C3 Scope of Work

### **JOHANNESBURG WATER (SOC) LTD**

### **MEDICAL SCREENING POLICY**

JW OPS 005/25: TRANSPORTATION OF SEWAGE SLUDGE ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS.



C3 Scope of Work

Johannesburg Water

**NOTICE** 

It is the Contractor's responsibility to ensure that medical surveillance requirements specified in the Occupational Health and Safety Act (85/1993) and Regulations and any other applicable legal and Johannesburg Water's requirements are fully complied with.

This document is meant to facilitate the Contractor's compliance to applicable requirements and does not replace the applicable legal requirements.

This document may be revised at any time to include applicable legal requirements not currently included that may come to the attention of Johannesburg Water in future. The Contractor will accordingly be responsible to comply with the revised requirements as might be necessary.

Where methods to ensure legal compliance have been specified in this document, Contractors may submit alternative detailed method statements for consideration and approval by Johannesburg Water. Johannesburg Water may, at its sole discretion, reject or accept such alternative methods.

C3 Scope of Work



Occupational Health and Safety Specification

### 1 PURPOSE OF THE MEDICAL SURVEILLANCE REQUIREMENTS PROCEDURE

The purpose of this Medical Surveillance Requirements Procedure is to facilitate the achievement of legal compliance relating to medical surveillance by all Consultants, Contractors, Subcontractors and suppliers that will be working on the Johannesburg Water project and to ensure that employees are fit to work in the roles that they have been employed to execute and remain so for their duration on the project site.

This document represents the minimum requirements for medical surveillance and does not replace applicable legal requirements.

### 2 MEDICAL SURVEILLANCE OBJECTIVES

The Johannesburg Water main objectives for medical surveillance are:

- a) To ensure compliance with all applicable medical surveillance legal requirements.
- b) To ensure compliance with all Johannesburg Water's requirements regarding medical surveillance.
- c) To ensure that employees are fit to execute the work for which they have been employed.
- d) To prevent employees from acquiring occupational diseases or illnesses.
- e) To ensure early detection and treatment of occupational diseases and to prevent the aggravation of existing medical conditions.
- f) To ensure that employees on departure from the project have not contracted any occupational diseases and to enable any such condition that arises to be suitably addressed.

All contractors are required to demonstrate total commitment towards the achievement of these objectives.



Occupational Health and Safety Specification

C3 Scope of Work

### 3 GENERAL REQUIREMENTS

- 3.1 The Principal Contractor shall ensure that a medical surveillance programme is implemented for all employees.
- 3.2 An initial health evaluation shall be carried out by an occupational health practitioner immediately after a person commences employment, where any exposure exists or may exist, which comprises:
  - o an evaluation of the employees medical and occupational history;
  - a physical examination; and
  - any other essential examination which in the opinion of the occupational health practitioner is desirable in order to enable the practitioner to do a proper evaluation.
- 3.3 Medical surveillance & Immunization shall be done accredited institutions or occupational health doctor, including, but not limited to:
  - a) Audiograms.
  - b) A cardio-respiratory examination, including full size chest x-rays (If lung function tests are abnormal)
  - c) Lung function tests.
  - d) Eye/ sight tests.
  - e) A general physical examination.
  - f) A review of previous medical history.
  - g) Blood pressure tests
  - h) Glucose tests
  - i) Vaccination (Hepatitis A & Typhoid)

Copies of all medical certificates shall be submitted to the Johannesburg Water Safety Specialist or Appointed OHS Agent to prior to site establishment and before an employee is allowed to come onto site.

Specific attention shall be given to the physical and psychological fitness of people who will be required to work in elevated positions and operators of mobile machinery.



Occupational Health and Safety Specification
C3 Scope of Work

An exit medical certificate shall be obtained for all workers at the end of the contract and for all workers who leave the employment of the Contractor before the end of the Project. Copies of all exit medical certificates shall be submitted to the Johannesburg Water Safety Specialist or Appointed OHS Agent.

Medical surveillance shall address all occupational health risks to which the employee is exposed, identified through the risk assessment referred to in section 4 below.

Retention monies will be withheld if the exit medical is not complete for all employees.

The cost of all medical examinations will be borne by the Contractor as provision is made on the bill of quantities.

### 4 OCCUPATIONAL HEALTH RISK ASSESSMENT

- 4.1 The Contractor shall conduct an occupational health risk assessment prior to site establishment.
- 4.2 The Contractor shall ensure that, as far as is reasonably practicable, ergonomic related hazards are analyzed, evaluated and addressed in the risk assessment.
- 4.3 The methodology used by the contractor to assess occupational health risks associated with their activities shall be submitted to Johannesburg Water for approval by the Johannesburg Water Safety Specialist or Appointed OHS Agent prior to site establishment. The methodology should take the following into consideration, among others:
  - a) Legal requirements.
  - b) Normal activities undertaken by the contractor.
  - c) Abnormal situations (e.g. unanticipated breakdown of equipment etc).
  - d) Emergency situations (e.g. fires, exposure to chemicals).
  - e) Changes in work procedures and methods.
  - f) Previous experience.



Occupational Health and Safety Specification C3 Scope of Work

- 4.4 A risk register that will include the following shall be submitted to the Johannesburg Water Safety Specialist or Appointed OHS Agent before site establishment.
  - a) All occupational health risks identified during the occupational health risk assessment.
  - b) A list of the occupational health risks that have been identified as being significant.
  - Reference to the method statements, measures or procedures that will be followed to c) either eliminate or reduce the significant risks to tolerable levels.
- 4.5 The Contractor shall, in writing, clearly explain how each occupational health risk assessed to be significant will be addressed to eliminate or reduce it to a tolerable level and submit it for approval by the Johannesburg Water Safety Specialist or Appointed OHS Agent before site establishment. This may be through method statements or written operational control procedures. Associated responsibilities and authorities shall be clearly defined. All method statements shall reflect at least:
  - a) When the activities relating to the method statement will be conducted (timing).
  - Materials to be used. b)
  - Equipment and staffing requirements. c)
  - d) The proposed construction procedure designed to implement the relevant requirements.
  - e) The system to be implemented to ensure compliance with the method statement.
  - f) Any other information deemed to be necessary by the Johannesburg Water Safety Specialist or Appointed OHS Agent and/or the contractor's responsible person.
- 4.6 For significant occupational health risks identified after site establishment, method statements shall be submitted to the Johannesburg Water Project Specialist or Appointed OHS Agent at least 10 working days before the start of the associated activity, when possible.
- 4.7 All changes to approved method statements or procedures shall be approved in writing by the Johannesburg Water Safety Specialist or Appointed OHS Agent.
- 4.8 The contractor's Responsible Person shall retain records of any amendments and shall ensure that only the most current approved version of any method statement or procedure is used.



Occupational Health and Safety Specification

C3 Scope of Work

- 4.9 Every occupational health risk that is identified during the risk assessment process shall be conveyed to every employee whose work is associated with the risk. This may be done in the form of a toolbox talk but does not replace the toolbox talk entirely. Each employee shall sign to confirm an understanding of the occupational health risks in the tasks.
- 4.10 Occupational health risk assessments may be combined with safety and environmental risk assessments, but the consideration of occupational health issues shall be clearly reflected in the records generated and maintained.
- 4.11 The occupational health risk assessment process and effective implementation of measures to eliminate or reduce identified risks is the responsibility of the Contractor. Johannesburg Water will closely monitor the effectiveness of implemented measures.



Contract JW OPS 005/25

Volume 2

Occupational Health and Safety Specification

C3 Scope of Work

### **Acknowledgement of JW Medical Screening Policy**

Name of Contractor		
I, the undersigned, hereby acknowledge the Policy and confirm that I fully understand the		
Signed at	. on this Day of	20
Signature of Contractor / Mandatory	Date	
Signature of 16.2 / Construction Manager	Date	
Witness 1	Witness 2	



OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION		
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## ANNEXURE 3: SIGN OFF FORM

### **OHS CONTRACTORS' MANAGEMENT SYSTEM**

### TENDER DOCUMENT SHE SPECS SIGN-OFF FORM



REQUESTED BY

SIPHOSETHU MAZIBUKO

DATE

16-04-2025

JW OPS 005/25

JW OPS 005/25: TRANSPORTATION OF SEWAGE SLUDGE ON AN "AS AND WHEN" REQUIRED BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS

### LIST OF SHE SYSTEM ATTACHED TO THE TENDER DOCUMENT

SHE SYSTEM ATTACHED	Y/N	VERSION	NO PAGES	REMARKS
Volume 2 OHS Specification & Acknowledgement Form	Y	V2 – 09/16	34	For info
Baseline Risk Assessment	Y	V01 - 05/15	8	For info
Medical Screening Policy	Y	V01 - 05/15	8	For info
Returnable Annexure A	Y	V02 - 02/20	1	Return with tender document

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# ANNEXURE 4: ENVIRONMENTAL MANAGEMENT PLAN





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### JOHANNESBURG WATER SOC LTD

### ENVIRONMENTAL MANAGEMENT PLAN REVISION:05

Prepared By:

OHSE & DM

**Environmental Management Section** 

### Johannesburg Water SOC (Ltd)

PO Box 61542 Marshalltown

2001

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### DISCLAIMER

- 1. Should there be any other Environmental related activities issued as non-compliance during construction, the contractor is liable to comply with those requirements
- Should the contractor deviate from the conditions and requirements of the EMP and/or Environmental Authorisation (if applicable), the contractor is liable for non-compliances, rectification and associated fines thereof
- 3. This EMP does not exempt the Contractor from complying with other relevant legislations related to the construction activities.





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BA	Basic Assessment	_
BAR	Basic Assessment Report	

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Competent Authority

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DEA Department of Environmental Affairs

DWS Department of Water and Sanitation

EA Environmental Authorisation

EAP Environmental Assessment

Practitioner

EO Environmental Officer

EIA Environmental Impact Assessment
EMPr Environmental Management

Programme Report

GDARD Gauteng Department of Agriculture

and Rural Development

GN Government Notice

I&AP Interested and Affected Party

JW Johannesburg Water

km Kilometre

m meter

MSDS Material Safety Data Sheets

NEMA National Environmental Management

Act, 1998 (Act No. 107 of 1998)

NWA National Water Act, 1998 (Act No. 36

of 1998)

PHRAG Provincial Heritage Resources

Authority for Gauteng

RE Resident Engineer

WUL Water Use License

WULA Water Use License Application
WWTW Wastewater Treatment Works

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### **DEFINITIONS**

### **Environment**

The surroundings in which humans exist and which comprise of:

- Land, water and atmosphere of the earth.
- · Micro-organisms, plant and animal life.
- Any part or combination of a) and b) and the interrelationships among and between them.
- The physical, chemical, aesthetic and cultural properties and conditions of the foregoing that can influence human health and well-being.

### **Environmental Aspect**

Those components of the company's activities, products and services that is likely to interact with the environment.

### **Environmental Authorisation**

The written statement from the relevant environmental authority in terms of the National Environmental Management Act (Act 107 of 1998), with or without conditions, that records its approval of a planned activity and the implementation thereof and the mitigating measures required to prevent or reduce the effects of environmental impacts during the life of a contract.

### **Environmental Impact Assessment (EIA)**

The decision making process of examining the environmental impacts of a development in terms of the NEMA (107 of 1998) and the EIA Regulations (Government Notice No. R982, R983, R984, R985 and R986) as amended.

### **Environmental Management Programme (EMPR)**

An environmental management tool used to ensure that undue or reasonably avoidable adverse impacts of the construction, operation and decommissioning of a project are prevented; and that the positive benefits of the projects are enhanced.

### **Environmental Management System (EMS)**

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A set of process and practices that enable an organization to reduce its environmental impacts and increase its operational efficiency. The EMS provides a framework that helps a company achieve its environmental goals through consistent control of its operations.

### **Auditing**

A systematic and objective assessment of an organization's activities and services conducted and documented on a periodic basis internally and externally.

### **Environmental Objective**

An overall environmental goal, arising from the environmental policy, that an organization sets itself to achieve, and which is quantified where practicable.

### **Environmental Target**

A detailed performance requirement quantified where practicable, applicable to the organization or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.

### Floodplain

A flat expanse of land bordering a river channel, formed through sediment deposition and other alluvial processes, and often characterized by frequent flooding as a result of bank overspill from the river channel.

### Groundwater

Sub-surface water in the zone in which permeable rocks, and often the overlying soil, are saturated.

### **Hazardous waste**

Waste that are proven to be toxic, corrosive, explosive, flammable, carcinogenic, radioactive, poisonous or classified as such in legal terms.

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### **Heritage Resource**

Any place or object of cultural significance including buildings, structures, landscapes, graves and geological, archaeological artefacts and paleontological sites.

### Landscape

Land modified for human use and occupation, embracing both the natural (wilderness) environment and the urban.

### **Management actions**

Practical actions aimed at achieving management objectives and targets.

### **Management objectives**

Desired outcome of management measures for mitigating negative impacts and enhancing the positive impacts related to project activities and aspects (i.e. risk sources).

### Monitoring

A systematic and objective observation of an organization's activities and services conducted and reported on regularly.

### **Natural Vegetation**

All existing vegetation species, indigenous or otherwise, of trees, shrubs, groundcover, grasses and all other plants found growing on the site.

### **Pollution**

Any change in the environment caused by substances, radioactive or other waves, or noise, odours, dust or heat, emitted from any activity, including the storage or treatment of waste or substances, construction and the provision of services, whether engaged in by any person or an organ of state, where that change has an adverse effect on human health or well-being or on the composition, resilience and productivity of natural or managed ecosystems, or on materials useful to people, or will have such

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an effect in the future. Furthermore, pollution can also be regarded as an undesirable state of the natural environment being contaminated with harmful substances as a consequence of human activities.

### **Protected Plants**

Plant species officially listed on the Protected Plants List (each province has one), and which may not be removed or transported without a permit to do so from the relevant provincial authority.

### Reinstatement

Reinstatement is defined as the return of a disturbed area to a state, which approximates the state (where possible), which it was before disruption.

### **Riparian Habitat**

The physical structure and associated vegetation of the areas associated with a watercourse which are commonly characterised by alluvial soils, and which are inundated or flooded to an extent and with a frequency sufficient to support vegetation of species with a composition and physical structure distinct from those of adjacent land areas.

### Runoff

The total water yield from a catchment including surface and subsurface flow.

### Sensitive environmental features

Environmental features protected by legislation (e.g. heritage resources), or identified during the EIA as sensitive through specialists' findings and input received from Interested and Affected Parties.

### Subsoil

The soil horizons between the topsoil horizon and the underlying parent rock.

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### **Topsoil**

Topsoil can be regarded as the fertile upper part or surface of the soil.

### **Transplanting**

The removal of plant material and replanting the same plants in another designated position.

### Veld

Unimproved areas of natural vegetation

### Wastewater

Water contaminated by the project activities.

### Watercourse

A geomorphological feature characterized by the presence of a stream flow channel, a floodplain and a transitional upland fringe seasonally or permanently conveying surface water.

### Waterlogged

Soil or land saturated with water long enough for anaerobic conditions to develop.

### **Weeds and Alien Invasive Plants**

Weeds and Alien Invasive plants are defined as undesirable plant growth that shall include, but not be limited to all declared category 1, 2 and 3 listed Alien Invasive species as set out in the Conservation of Agricultural Resources Act (No 43 of 1983) regulations. Other vegetation deemed to be invasive should be those plant species that show the potential to occupy in number, any area within the defined construction area.

### Wetland

Land where a surplus of water (i.e. waterlogging) is the key factor determining the nature of the soil development as well as the types of plants and animals living at the soil surface.

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### 1. BACKGROUND

The purpose of this document is to provide management measures that will ensure that potential negative impacts associated with the activity are minimized whilst positive impacts are optimised, provided that the EMP is implemented by a suitably qualified Environmental Officer (EO). The development proponent, the main contractor and the sub- contractor are responsible for the implementation of the EMP throughout the stages. Therefore, it is imperative that the EMP is circulated to site managers, contractors and Depots who will perform any work on site which has the potential to cause environmental damage. Any parties responsible for transgression of the underlying management measures outlined in this document will be held liable for non-compliances.

The following is a generic EMP to mitigate against "generally occurring impacts" associated with the construction phase of Johannesburg Water's activities. "Generally occurring impacts" refers to potential impacts typical of Johannesburg Water's activities and are not restricted to a single or specific site. The findings of this EMP will be implemented at all sites.

This section is an essential component of the contract specification and shall be included during planning, design, construction, and operational phases.

### **PURPOSE**

The purpose of this EMP is to ensure that Johannesburg Water conducts all its activities related to the construction and maintenance in accordance with the provisions of NEMA, and other applicable legislations. This EMP has considered the provisions of the Constitution and the principles of Integrated Environmental Management.

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### 2. APPLICABLE LEGISLATIONS

Several laws and regulations apply to the protection of the environment. These laws contain environmental principles and standards that need to be applied when applicable permits and licences that need to be obtained. This EMP will be subject to regulatory control under a range of State, Provincial and Local regulations. Such legislation largely embraces pollution prevention, sustainable resource use, conservation, and socio cultural (heritage) protection. This chapter reviews legislation pertaining to this generic EMP.

According to Section 2 (1, 2 & 3) of the National Environmental Management Act No. 107 of 1998 (NEMA), all organs of state must apply certain principles set out in NEMA when taking decisions that may significantly affect the environment. The key principles of this Act include that all "actions" that they approve must be economically, socially, and environmentally sustainable. It further states that "people and their needs" must be at the forefront of "its concern" and their interests must be served equitably. These legislative requirements include, but are not limited to, the provisions of the legislation represented as described below:

### The Constitution of the Republic of South Africa Act No. 108 of 1996)

Section 24 of the Constitution of South Africa (Act 108 of 1996) states that "Everyone has the right (a) to an environment that is not harmful to their health or well-being; and

(b) To have the environment protected, for the benefit of present and future generations through reasonable legislative and other"

### Measures that:

- Prevent pollution and ecological degradation;
- Promote conservation; and
- Secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development".
- Section 152 of the Constitution states that the objectives of local government are to:
- Ensure that services are provided to communities in a sustainable manner.

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- Promote social and economic development; and
- Promote a safe and healthy environment.

### National Environmental Management Act No. 107 of 1998 (as amended)

The National Environmental Management Act 107 of 1998 (NEMA) requires that an environmental authorization is obtained before activities, which have been listed in terms of NEMA, are commenced with. The failure to obtain such an environmental authorization, before commencing with listed activities, could result in administrative sanctions, including compliance notices or directives ordering the cessation of the operations until authorized; and fines of up to ZAR10 million for each such contravention.

The Environmental Impact Assessment Regulations (EIA Regulations) set out the process to be followed in applying for an environmental authorization, while the listing notices; list the activities that require authorization (the Listing Notices). NEMA 107 of 1998 amended in 07 of April 2017. The following are the listed activities:

- EIA Regulations GNR 326
- Listing Notice 1; Government Notice Number (GNR) 327 (Basic Assessment).
- Listing Notice 2; Government Notice Number (GNR) 325 (Full EIA/ Scoping & Environmental Impact Report).
- Listing Notice 3; GNR 324 (It applies on both Basic Assessment and full EIA).

### National Environmental Management: Biodiversity Act No. 10 of 2004

Provides management and conservation of South Africa's biodiversity within the framework of NEMA 107 of 1998; the protection of species and ecosystems that warrant national protection and the sustainable use of indigenous biological resources.

### The National Environmental Management Waste Act 59 of 2008

The National Environmental Management Waste Act (NEMWA) reforms the law regulating waste management in order to protect health and the environment providing reasonable measures for the

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prevention of pollution and ecological degradation and for securing ecologically sustainable development; to provide for institutional arrangements and planning matters; to provide for national norms and standards for regulating the management of waste by all spheres of government; to provide for specific waste management measures; to provide for licensing and control of waste management activities; to provide for the remediation of contaminated land; to provide for the national waste information system; to provide for compliance and enforcement; and to provide for matters connected therewith.

### The Occupational Health and Safety Act No. 85 of 1993

The Occupational Health and Safety Act make provision in regulation

- Section 8 for the general duties of employers to their employees.
- Section 9 of the Regulations makes provision for general duties of employers and self-employed persons to persons other than their employees.

### National Heritage Resources Act (NHRA) No. 25 of 1999

The protection and management of South Africa's heritage resources are controlled by the National Heritage Resources Act. The South African National Heritage Resources Agency (SAHRA) is the responsible authority for implementing the National Heritage Resources Act (NHRA) 1999, (Act 25 of 1999).

Section 38(1) of the NHRA lists development activities that would require authorisation by the responsible heritage resources authority. Activities considered applicable to the proposed project include the following:

- (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length.
- (b) the construction of a bridge or similar structure exceeding 50 m in length; and
- (c) any development or other activity which will change the character of an area of land, or water i exceeding 5 000 m<sup>2</sup> in extent,

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ii involving three or more existing erven or subdivisions thereof; or

iii involving three or more erven or divisions thereof which have been consolidated within the past five years; or

iv the costs of which will exceed a sum set in terms of regulations by SAHRA or a Provincial Heritage v Resources Authority.

- (d) the re-zoning of a site exceeding 10 000 m<sup>2</sup> in extent; or
- (e) any other category of development provided for in regulations by SAHRA or a Provincial Heritage Resources Authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature, and extent of the proposed development.

### Water Services Act No. 108 of 1997

This Act provides for the rights of people to basic water supply amongst others basic sanitation. It acknowledges that that there is a duty on all spheres of government to ensure that sanitation services are provided in a manner which is efficient, equitable and sustainable and that it should be sufficient for subsistence and sustainable economic activity. The provision of sanitation services must be undertaken in a manner consistent with the broader goals of water resource management. This goal is in line with the Act as it aims to provide sufficient sanitation services to the region in a sustainable manner.

### Conservation of Agricultural Resources (CARA) Act, Act No. 43 of 1983

The CARA aims to ensure the protection of agricultural resources such as land with agricultural potential and water and makes provision for the eradication of alien and invasive species, and protection of topsoil.

### NEMA Air Quality Act (AQA), Act No. 39 of 2004

The aim of this law is to regulate air quality and protect the environment in South Africa through reasonable measures to prevent pollution and ecological degradation, while securing sustainable development. The Act also provides national norms and standards for air quality management, monitoring and control. Under this legislation, Priority Air shed Areas can be proclaimed, where specific

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Air Quality Management Plans are applicable. Regulations are also published under this Act for the format of air quality assessments and what should be included in the assessment. Any Air Quality Management Plan which has been compiled for the area and any proposed WwTW should be in line with this Management Plan. This Act may list activities which may result in atmospheric emissions, and which may have a significant detrimental effect on the environment.

Government Gazette 32434 of 24 July 2009 listed activities, which require an atmospheric emission license before it commences. Air quality limits and thresholds are fundamental to effective air quality management, providing the indicators to safe exposure levels for the majority of the population. The current South African standards have been revised and National Ambient Air Quality Standards were promulgated on the 24th of December 2009 (Government Gazette No. 32816, Notice No. 1210). The newly proposed standards include particulate matter specifically PM10 (particulates with a diameter of less than 10 micrometre), sulphur dioxide (SO2), nitrogen dioxide (NO2), ozone (O3), lead, carbon monoxide (CO) and benzene. These revised standards have been adopted as the VTAPA air quality objectives. Any emissions from the proposed WWTW should be within these standards.

### National Water Act (NWA), 36 of 1998

Water use is controlled by the National Water Act (NWA) Act No. 36 of 1998. The NWA recognises that water is a scarce resource in South Africa and its provisions are aimed at achieving sustainable use of water to the benefit of all users. The provisions of the Act are thus aimed at discouraging pollution and waste of water resources. According to Section 21 of the NWA the following activities require a water use licence (WUL) prior construction:

- "21.(a) taking water from a water resource;
- 21.(b) storing water;
- 21.(c) impeding or diverting the flow of water in a watercourse;
- 21.(d) engaging in a stream flow reduction activity contemplated in section 36:
- 21.(e) engaging in a controlled activity identified as such in section 37(1) or declared under section 38(1);
- 21.(f) discharging waste or water containing waste into a water resource through a pipe, canal,

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sewer, sea outfall or other conduit;

- 21.(g) disposing of waste in a manner which may detrimentally impact on a water resource:
- 21.(h) disposing in any manner of water which contains waste from, or which has been heated in, any industrial or power generation process;
- 21.(i) altering the bed, banks, course or characteristics of a watercourse;
- 21.(j) removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people; and
- 21.(k) using water for recreational purposes."

### 3. OBJECTIVES OF THE ENVIRONMENTAL MANAGEMENT PROGRAMME

The purpose of this EMP is to provide an easily interpreted reference document that ensures that the project environmental commitments, safeguards and mitigation measures from the environmental planning documents, project approvals, and scope of work are implemented.

The objectives for the EMP are:

- To develop, implement and maintain effective management systems for the environmental aspects.
- To document details of environmental protection infrastructure and controls so that they are able to provide long term protection for the natural environment.
- To ensure compliance with relevant legislation (National, Provincial and Local), regulatory requirements and environmental documents.
- To maximise the value and outcomes of environmental monitoring activities so that the information can be applied to the planning and implementation of future projects.
- To ensure that all Environmental Management considerations are implemented during the planning, operational and maintenance phases of the project.

All the environmental specifications and the procedures discussed in this document were also developed in accordance with the relevant legislation applicable to the development.

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### 3.1 Phases of the Project

The EMP deals with the following phases as detailed below:

### 3.1.1 The Planning and Design Phase

Overall Goal for Planning and Design: Undertake the planning and design phase of the development in a way that:

- Ensures that the design of the proposed development responds to the identified environmental constraints and opportunities.
- Ensures that the best environmental options are selected for all components of the project.
- Ensures that there is sufficient financial provision for environmental assessment, monitoring, rehabilitation, and maintenance. The JW rehabilitation calculation template must be used (See Annexure D).
- The qualified landscaping specialist must be appointed to undertake rehabilitation on site. The landscaping specialist must pose the following qualifications and work experience:
  - Landscaping Specialist should at least have BA/BSc Honours Degree or 4-year Degree in Natural Sciences/Ecological
  - The Landscaping Specialist must at least be registered with South African Council for Natural Scientific Professions (SACNASP) as a Professional Natural Scientist (Copy of SACNASP Certificate must be submitted).
  - At least three letters from their client/s must be submitted, detailing the landscaping work he/she has undertaken (letters should have the name of the client, description of the project and/or scope of work done, contact details and must be signed). Letters should be in their client's company letterhead, and it must indicate if the work has been completed satisfactorily or not. Copy of CV must be submitted, specialist should at least have a minimum of five (5) years working experience as landscaping Specialist (See Table 1).

The EMP offers an ideal opportunity to incorporate pro-active environmental management measures with the goal of attaining sustainable development.

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Pro-active environmental measures minimize the chance of impacts taking place during the construction and operational phase. There is still the chance of accidental impacts taking place; however, through the incorporation of contingency plans (e.g., this EMP) during the planning phase, the necessary corrective action can be taken to further limit potential impacts. In order to meet this goal, action plans for planning and design stages of the project must be identified together with monitoring requirements.

### 3.1.2 The Construction Phase

The bulk of the impacts during this phase will have immediate effect (e.g., noise-, dust- and water pollution etc.) If the site is monitored on a continual basis during the construction phase, it is possible to identify these impacts as they occur. These impacts will then be mitigated through the contingency plans identified in the planning phase, together with a commitment for sound environmental management from Johannesburg Water and its agents.

### 3.1.3 Rehabilitation and Reinstatement Phase

This phase will involve restoring the land impacted during the construction phase back to its original state (in the case of slopes, gradients, soil profiles, and hydrology) or better. This process will be mainly on rectifying the negative impacts that have been caused during construction by the removing pollution or contaminants and other dangerous substances from groundwater, sediment, or surface water and improvement of the soil.

### 3.1.4 The Operational Phase

By taking pro-active measures during the planning and construction phases, potential environmental impacts emanating during the operational phase will be minimised. This, in turn, will minimise the risk and reduce the monitoring effort, but it does not make monitoring obsolete.

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### 4. ROLES AND RESPONSIBILITY

The implementation of this EMPr requires the involvement of several stakeholders, each fulfilling a different but vital role to ensure sound environmental management during the construction and operational phases. The stakeholders are discussed below:

### 4.1 Johannesburg Water and its Agents shall:

Ensure that the EMP is kept on JW's Sites and construction sites.

- Remain ultimately responsible for ensuring that the development is implemented according to the requirements of the EMP.
- Ensure that the Environmental section attends all project related tender briefing sessions.
- Although Johannesburg Water appoints specific role players to perform functions on its behalf, this responsibility is delegated.
- Be liable for restoring the environment in the event of negligence leading to damage to the environment.
- Ensure that the EMP is included in the tender documentation so that the contractor who is appointed is bound to the conditions of the EMP, and there's sufficient budget for environmental assessments and/or assessment during the planning, design, construction, replacement of vegetation and restoration of habitats, decommissioning (rehabilitation) phases of the project.
- Ensure that the contractor appointed understands, acknowledges and fully accepts the content
  of this EMP and their responsibilities for implementation and compliance.
- Monitor compliance with the conditions of the environmental authorisation and the EMP and compliance audits are undertaken.
- Ensure that the Environmental section signs all close out reports to confirm rehabilitation.

### 4.2 Appointments and competencies

- The contractor and its appointed sub-contractor must meet the relevant legislative and nonstatutory appointments, which must be maintained valid for the entire contract duration.
- All appointees shall be suitably trained and certified competent for the responsibilities they are assigned for.

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• Copies of all relevant appointments and the relevant competence certificates must be kept in the relevant Environmental file.

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### **Table 1: Environmental Officer's Appointment Index**

Appointment	Project Type	Legislative Ref	Competency requirements (Min)
Contractor SHE Officer	Unauthorised Project	JW EMP/ JW Waste Management Procedure	National Diploma in Safety & ISO14001:2015
			(Introduction/Awareness, implementation,
			and auditing ISO14001:2015) + 2 years'
			Experience
			OR
			National Diploma in Environmental
			Management + 2 years' Experience OR
			NEBOSH / SAMTRAC & Basic
			ISO14001:2015/ Basic Environmental
			Awareness (Introduction and
			Implementations to ISO14001:2015) + 4
			years' Experience.
			Register with SACPCMP.
Contractor Environmental	Authorised project	JW EMP and Project Specific approved EMP	National Diploma in Environmental
Liaison Officer/Environmental		/Directives/Environmental	Management/ + 3 years' Experience.
Officer		Authorisation/GA/WUL	BA/BSc Environmental Management + 3
			years' experience.
			The recommended and/or market related
			minimum Salary/wages for ELO/EO should
			be <b>R17 000.00.</b>

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Environmental	Unauthorised Project	JW EMP	Must hold a Senior Certificate (Matric) and	
Representative/Environmental			one of the following qualifications. National	
Rep			Diploma in Environmental Management/	
			BA/BSc Environmental Management or	
			Science/ISO 14001:2015(Introduction;	
			Implementation and Auditing/Certificate in	
			Environmental law/National Certificate in	
			Environmental Management.	
			The recommended and/or market related	
			minimum salary/wages for Environmental	
			Representative should be R10 000.00.	
Consultant Environmental	Authorised project (as and	JW EMP and Project Specific approved EMP	Reputable Environmental Consulting	
Control Office	when required)	/Directives/Environmental	Company	
		Authorisation/GA/WUL	National Diploma or BA/BSc Environmental	
			Science or Management + 3 years'	
			experience as an independent	
			ECO/Consultant	
Landscaping Specialist	Unauthorised and	JW EMP and Project Specific approved EMP	Reputable Environmental Consulting firm	
	Authorised project	/Directives/Environmental	/Landscaping Company.	
		Authorisation/GA/WUL		

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Landscaping Specialist should at least have
BA/BSc Honours Degree or 4-year Degree in
Natural Sciences/Ecological.
- The Landscaping Specialist must at least be
registered with South African Council for
Natural Scientific Professions (SACNASP) as
a Professional Natural Scientist (Copy of
SACNASP Certificate must be submitted).
- Specialist should at least have a minimum of
five (5) years working experience as
landscaping Specialist (See Table).

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### 4.3 The Contractor shall:

- Be bound to conform to the EMP conditions through his/her contract with Johannesburg Water, and
  is responsible for ensuring that he adheres to all the conditions of the EMP.
- Thoroughly familiarise with the EMP requirements before construction begins and must request clarification on any aspect of these documents, should they be unclear.
- Be responsible for mitigation and rehabilitating all environmental damage at his/her expense.
- Ensure adherence to, and implementation of, the environmental management specifications.
- Ensure that environmental damage, whether intentional or unintentional, is prevented in the first instance, mitigated and rehabilitated, and must adopt a proactive approach followed by a reactive approach.
- Ensures identification of, and compliance with, all environmental laws, all by laws and regulations.
- Ensure that any instructions (whether verbal or written) issued by the site manager, project manager, site engineer or EO, in terms of the EMP is adhered to.
- Ensure that an environmental compliance report is tabled at each site meeting, which must document all incidents, complaints, and non-compliances, and their close out progress, which has occurred during the period before the site meeting.
- Provide a photographic report to JW upon request showing close out of identified issues.
- Provide any project or compliance information that may be requested by JW in any format as requested.
- Ensure that proposed site camp areas are approved by JW environmental section prior to establishment.
- Ensure compliance with the EMP conditions even if there will be no site camps or the project is an emergency or subject to Directives.
- Take comprehensive site photographs for before, during and after construction.
- Ensure that each individual resident/landowner/stakeholder requirement is documented, pertaining to the area to be disturbed, special features, vegetation to be disturbed, rehabilitation requirements (contractors must state to residents/stakeholders that indigenous vegetation species will be put

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back, however, should residents/stakeholder require non-indigenous species to be replaced, these are to be documented before being affected) prior to any disturbance.

- Provide a detailed, site-specific method statement for rehabilitation, which must be approved by JW Engineer and EO.
- Ensure that a report is tabled at each site meeting, which will document all incidents that have occurred during the period before the site meeting.
- Ensure that incidents register is kept in the site office.
- Ensure that a register of all public complaints is maintained.
- Ensure that all employees, including those of sub-contractors receive Environmental Induction before the commencement of construction in order that they can constructively contribute towards the successful implementation of the EMP (i.e., ensure their staff are appropriately trained as to the environmental obligations).
- Ensure that all disturbed areas are rehabilitated and at least 85% healthy grass/ground cover has
  established, that rehabilitation is maintained, the sites are free of erosion, waste and pollution of
  any kind including rubble and spills, and free of weeds and alien invasive species.
- Appoint an Environmental Liaison Officer (ELO) prior Construction for Environmental Authorised Projects.
- Appoint SHE Officer prior Construction for unauthorized projects i.e., the SHE Officer with Environmental Management experience or be trained on Environmental legislation.
- Provide accurate and factual information pertaining to the projects, communications, and discussions at all times.
- Is responsible for NEMA Duty of Care, and Polluter pays principle.

### 4.4 Environmental Liaison Officer (ELO)/ SHE Officer shall:

- Ensure that the project team is involved in all aspects of project planning that can influence environmental conditions on the site.
- Be permanently on site during the construction phase to oversee the Contractor's internal compliance with the EMP requirements and ensuring that the environmental specifications are adhered to.

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- Assist with day-to-day monitoring of the construction activities. Ensure that any issues raised by the EO will be routed to the SHE Officer for the contractors' attention.
- The ELO/ SHE Officer shall be permanently on site during the construction phase to oversee the Contractor's internal compliance with the EMP requirements and ensuring that the environmental specifications are adhered to.
- Be responsible for keeping detailed records of all site activities that may pertain to the environment and include all these aspects in an environmental register.
- Maintain site documentation and records related to environmental management (EMP, authorisations, permits, way-eaves, method statements, audit reports, monitoring results, receipts for waste removal, environmental file, etc.)
- The ELO/SHE Officer must keep a register of complaints from any community members on environmental issues.
- The ELO /SHE Officer will be required to keep a record of all on-site environmentally related incidents and how these incidents were dealt with.
- Ensure daily implementation of the EMP conditions, and monitoring of the contractor's compliance with EMP conditions, using checklists and visual inspections.
  - Provide location details for possible site camp locations to JW environmental section and await approval from this section before establishing.
  - Inform JW environmental section when actual work is about to commence.
  - Inform JW environmental section of pending completion activities and intention to de-establish, prior.
  - Ensure proper rehabilitation is undertaken before site closure.

### 4.5 Resident Engineer (RE)/ Site Agent shall:

- Liaise with the Contractor and Environmental Officer (EO) on environmental matters, as well as any pertinent engineering matters where these may have environmental consequences.
- Oversee the general compliance of the Contractor with the EMP and other pertinent site specifications.

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- Familiarise him/herself with the EMP specifications and further monitor the Contractor's compliance with the Environmental Specifications daily through the Site Diary and enforce compliance.
- Ensure that Monthly Audits reach the contractor before Monthly Progress Meeting.
- Ensure proper rehabilitation is undertaken before site closure.

### 4.6 Project Engineer /Inspectors (PE/PI) shall:

- Ensure that there is a sufficient budget for complying with all EMP conditions at the tender stage.
- Ensure sufficient budget is provided for rehabilitation/ Reinstatement.
- Ensure proper rehabilitation is undertaken before site closure.
- Ensure of all specifications and legal constraints specifically with regards to the environment are highlighted to the Contractor(s) so that they are aware of these.
- Ensure that Contractor(s) are made aware of all stipulations within the EMP.
- Ensure that the EMP is correctly implemented throughout the project by means of site inspections and meetings. This will be documented as part of the site meeting minutes.
- Be fully conversant with the EIA for the project, the EMP, the conditions of the Environmental Authorisation (if applicable), and all relevant environmental legislation.
- Ensure compliance monitoring of contractors on a day-to-day basis.
- Ensure adherence and implementation of the tender requirements.
- Ensure reference of specific non-compliance/non-conformance issues to the responsible units and/or contractors.

#### 4.7 Environmental Officers shall:

- Be responsible for informing the contractors of any decisions that are taken concerning environmental management during the project phase.
- This would also include informing the contractors of the necessary corrective actions to be taken, issuing stop work orders and rehabilitation and remediation instructions if necessary.
- Liaise with environmental authorities where necessary.
- Review all the environmental documents submitted by the Contractor, including sign off.

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- Review all the environmental documents from the Contractor, including sign off.
- Conduct environmental monthly audits of all contractors' work on site where necessary
- Maintain site documentation of related to environmental management (EMP, Method statements, audit reports, monitoring results, receipts of waste removal etc.). Documents to be maintained on the relevant site Documents Control Systems.
- Inspect and report on environmental incidents and check corrective actions.
- Conduct environmental incidents enquiries.
- Review and sign off method statements prepared by Contractors.
- Ensure that an environmental compliance monitoring strategy/framework is implemented.

### 4.8 Environmental Control Officer (ECO) The role of the ECO shall be to:

- Act as site 'custodian' for the implementation, integration, and maintenance of the EMPr in accordance with the contractual requirements.
- Ensure successful implementation of the EMPr; and
- Ensure that the Contractor, his employees and/or Subcontractors receive the appropriate environmental awareness training prior to commencing activities.

### The responsibilities of the ECO will be to:

- Liaise with the JW Environmental Section and Project Engineer on the level of compliance with the EMPr achieved by the Contractor on a regular basis for the duration of the contract.
- Advise the Project Engineer on the interpretation and enforcement of the Environmental Specifications (ES), including evaluation of non-compliances.
- Enforce compliance with the EA and EMP through audit report and checklist
- Supply environmental information as and when required.
- Review and approve Method Statements produced by the Contractor, in conjunction with the PM and EO.
- Monitor any basic physical changes to the environment because of the construction works according to an audit schedule.

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- Attend regular site meetings and project steering committee meetings.
- Undertake regular monthly audits of the construction works and to generate monthly audit reports. These reports are to be forwarded to the JW EO who will communicate the results and conclusions with the principal Contractor.
- Submit audit reports to the authority as per the requirement of issued Environmental Authorisation.
- Communicate frequently and openly with the Contractor and the Project Engineer to ensure effective, proactive environmental management, with the overall objective of preventing or reducing negative environmental impacts and/or enhancing positive environmental impacts.
- Advise the Project Engineer on remedial actions for the protection of the environment in the event of any accidents or emergencies during construction, and to advise on appropriate cleanup activities.
- Review complaints received and made instructions as necessary; and
- Identify and make recommendations for minor amendments to the EMPr as and when required.

### 4.9 Environmental Representative (Environmental Rep) shall:

- Review the effectiveness of environmental measures in the workspace/construction environment for which he/she was appointed.
- Identify potential impacts in the workplace.
- Investigate environmental incidents and identify root causes.
- Investigate Environmental Complaints.
- Conduct Awareness training.
- Participate in Environmental inspections.
- Ensure compliance with JW EMP and other environmental management related legislations.
- Ensure Proper Rehabilitation is conducted.
- Attend site SHE meetings where Environmental issues are addressed.
- Guide Construction crew/team on environmental requirements as per JW EMP.
- Assist in day-to-day monitoring of construction activities.

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- Assist in implementation of ISO 14001:2015 standard.
- Assist the SHE Officer/EO with preparation of audits /inspections.

#### 5. CONTENTS FOR CONTRACTOR'S ENVIRONMENTAL FILE

The following documents must be submitted by the contractor in the Environmental file before Construction commences on site. The file must be submitted to the Environmental Section prior construction for approval. The Contractor should achieve a minimum score of 80% for the file to be approved (Refer to Annexure B: Environmental File Specification).

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#### 6. ENVIRONMENTAL SPECIFICATIONS

Table 2: Environmental Management and Mitigation Measures that must be implemented during the Design Phase and Construction **Phase** 

	Design Phase Measures					
Aspects	ID	Mitigation Measure/Procedure	Responsible	Implementation Timeframe	Monitoring Methods	Performance indicators
Project Planning/Design	1	<ul> <li>Proposed project is submitted to Environmental Section for screening (Project scope/layout/Maps),</li> <li>CAPEX and Ops must ensure that there is budget allocated for environmental management throughout the project life cycle i.e., planned project and Directives.</li> </ul>		Before project commences	<ul><li>Screening report</li><li>Tender document</li></ul>	Keep the records of the project screening report and scope of work as per Directives
Authorisation	2	<ul> <li>Appoint Consulting Company</li> <li>Ensure that all required licences and permits have been obtained before the start of construction.</li> <li>Ensure that ECO and/or ELO is appointed as per the authorisation and EMP requirement during project execution (as when and required).</li> </ul>	Johannesburg Water (CAPEX/ Environmental Section)	Before construction commences	Keep record of all permits, licences and authorisations	Keep record of all permits, licences and authorisations
Project Handover	3	<ul> <li>The scope of a project is outlined by CAPEX Engineer during the handover meeting.</li> <li>Environmental Management Requirements are outlined during the handover meeting.</li> </ul>	Water	Before construction commences	Meeting invite EA/GA/WUL/ Screening report	Keep record of all permits, licences and authorisations
Environmental Awareness Training/Induction s	4	<ul> <li>Environmental awareness training is given to the Project Team Leaders</li> <li>Environmental File Specification provided to the Contractor.</li> <li>JW Environmental Management Plan and other procedures are provided to the Contractor.</li> </ul>	Johannesburg Water (CAPEX/ Environmental Section)	Before construction commences	Meeting invite	Meeting records

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Environmental File & Evaluation  Aspects	5 ID	Contractor submits environmental file for approval prior work commences on site.     Construction activities/work (including site establishment) should ONLY commence when file is approved.      Construction  Mitigation Measure/Procedure	Appointed Contractor/Env ironmental Section  Phase Measures Responsible	Before construction commences  Implementation Timeframe	Environmental evaluation report.  Monitoring Methods	Approval/ rejection letter records  Performance indicators
Site camp establishment	1	<ul> <li>Invite the Environmental Officer for the site inspection of proposed site camp prior establishment.</li> <li>Submit a method statement for Site Camp establishment for approval by JW Environmental Officer/ECO prior commencement of works.</li> <li>Establish a suitably fenced Site Camp at the start of the contract, which will allow for site offices, vehicle, equipment, material, and waste storage areas to be consolidated as much as possible. Locate the Site Camp at a position approved by the JW EO, at least 100m from watercourses and in an area which is not ecologically sensitive.</li> <li>Provide water and/or washing facilities at the Site Camp for personnel.</li> <li>Lim it construction and lay down areas to areas within the development footprint.</li> <li>Ensure that environmentally friendly on-site sanitation options are selected, and these facilities are properly managed and maintained.</li> <li>Designated eating areas shall be provided on site.</li> <li>These eating areas shall be clearly demarcated and shall be provided with bins with lids.</li> </ul>	All Contractors	Before commencement of Project	Visual inspection Site establishmen t checklist/Met hod statement   output  limit of the control of the checklist of the che	Method statements approved by CAPEX and the Environmental Officer  Position of Site Camp approved by ECO Security and access to Site Camp controlled  Clear demarcation of no-go areas as agreed with JW EO. Detailed site layout plan Environmental file approval letter.

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Environmental Awareness Training	2	<ul> <li>Staff will be prohibited from consuming meals anywhere other than at these eating areas and that noise is limited.</li> <li>All eating areas shall include provision for a water and smoking area.</li> <li>Provide environmental awareness training to all personnel on site at the start of their employment. Training should include discussion of:</li> <li>Potential impact of construction waste and activities on the environment.</li> <li>Suitable disposal of construction waste and litter.</li> <li>Key measures in the EMPr relevant to worker's activities.</li> <li>How incidences and suggestions for improvement can be reported.</li> <li>Ensure that all attendees remain for the duration of the training and on completion sign an attendance register that clearly indicates participants' names.</li> </ul>	All Contractors	Before     workers start     working onsite     Before new     activities are     undertaken	Check training attendance register     Observe whether activities are executed in line with EMPr requirements	<ul> <li>Proportion of workers that completed.</li> <li>Environmental training Compliance of workers with EMP</li> </ul>
Plant Search and Rescue/Vegetation clearing	3	<ul> <li>From information gathered during the plant marking exercise, establish the size.</li> <li>Requirements for the plant rescue team workforce, and the methodology to be employed during the rescue to maximise the likelihood of success; Document and motivate which species found on site are considered to be conservation worthy.</li> <li>Follow a multi-pronged approach to maximise the likelihood of success wherever feasible. In addition to transplanting of whole plants, seed can be collected and sown in situ in suitable habitats and/or in an off-site nursery.</li> <li>Any plants not suitable for transplantation must be considered for transplanting to existing conservation</li> </ul>	All Contractors	Before commencement of activities	Visual Inspection/ inspection by Botanist/Ecologis t	<ul> <li>Incidents of harm coming to fauna/ flora.</li> <li>Number of incidents of disturbance of vegetation outside construction site boundary; and</li> <li>Size of area cleared relative to</li> </ul>

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	<ul> <li>Limit clearing to those areas within the footprint of</li> </ul>			
		1	1	

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Aftercare and monitoring

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<ul> <li>Record numbers and diversity of propagated plants and the health of the same, until they can be planted out;</li> <li>Aftercare of transplanted plants to be done in accordance with the plant search and rescue plan by an appropriate agent (e.g., staff from the commercial nursery or an appropriately trained onsite Contractor), including watering and alien plant control requirements. If done correctly, the frequency of input will decrease with time.</li> <li>Record numbers and diversity of transplanted plants and the health of the same.</li> <li>Monitoring must be undertaken as per requirements of the plant search and rescue plan approved by GDARD, including monitoring of alien plants and maintenance of a photographic record; and</li> <li>Provide a detailed record (including photographic record) that indicates the success of the plant rescue operation. Records of corrective action taken to improve management of transplanted plants, where relevant, must also be completed.</li> </ul>
<ul> <li>Applicable Legislation</li> <li>National Environmental Management Act: Biodiversity Act (Act 10 of 2004) including Threatened or Protected Species Regulations.</li> <li>National Environmental Management Act (Act 107 of 1998).</li> <li>Gauteng Nature Conservation Bill, 2014/Transvaal Nature Conservation Ordinance 12 of 1983; and</li> </ul>

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National Forests Act (Act 30 of 1998).

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Excavation	4		The process of excavation and back filling must be	All Contractors	Throughout	Visual inspection	Daily site
			carried out as a sequential process following one	7 001111401010	construction	1.caai iiiopoolioii	inspection.
			another as quickly as possible.				Damage to the
		•	Excavations must only remain open for a minimum				environment
			period of time and during this time they must be				(sensitive
			clearly demarcated. If excavations place the public				environment)
			at risk these sites must be fenced.				,
		•	Where possible, close excavations immediately				
			after pipe is laid.				
		•	The residents directly affected by open trenches				
			must be notified of the dangers. This will be done				
			during the site-specific phase.				
		•	Danger tape shall not be utilised to prevent				
			personnel from open excavations, orange nets				
			should be used for all open excavations on site.				
			Construction vehicles should avoid creating new roads, use existing roads.				
			Wet exposed surfaces using a water cart, bowser or				
		•	use a biodegradable and environmentally friendly				
			soil binder to prevent dust emissions.				
			Dewater excavations regularly and channel water to				
			areas of grass cover. If dewatering is near/within a				
			watercourse and is to be discharged to a				
			watercourse, ensure a silt fence/net and sandbags				
			are used to reduce silt loads.				
		•	Topsoil must be cleared (considered to be the upper				
			150mm of soil surface) and retained as it contains				
			most inorganic matter and nutrients. Topsoil must				
			be kept separate from subsoil and stored in				
			windrows parallel to excavations.				
I		•	Harvested grass should be retained and used as a				

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mulch to combat erosion.

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subsoil  stockpile at a height of not more than 1m.  Topsoil should be temporarily stockpiled, separately from (clay) subsoil and rocky material, when areas are cleared. If mixed with clay sub-soil the  stockpile at a height of not more than 1m.  clearance  stockpile at a height of not more than 1m.  stockpile at a height of not more than 1m.  storage an harvesting.  Manifestation						
Topsoil subsoil  The contractor should remove 150mm of topsoil and stockpile at a height of not more than 1m.  Topsoil should be temporarily stockpiled, separately from (clay) subsoil and rocky material, when areas are cleared. If mixed with clay sub-soil the usefulness of the topsoil for rehabilitation of the site  The contractor should remove 150mm of topsoil and stockpile at a height of not more than 1m.  All Contractors  During Vegetation clearance  Visual inspection incorrect storage and harvesting.  Manifestation of alie			<ul> <li>possible once cleared of indigenous or invasive vegetation.</li> <li>Avoid prolonged exposure of soils to wind and water erosion when clearing and grubbing.</li> <li>The stockpiled topsoil (which will be left standing for more than 1 month) must be covered with suitable fabric, and / seeded, to prevent erosion and weed invasion.</li> <li>Stockpiled topsoil must be covered with suitable fabric to prevent erosion and weed invasion.</li> <li>No vehicles are allowed to access onto the stockpiles after they have been placed.</li> <li>Topsoil and subsoil must be kept separate throughout construction and rehabilitation.</li> <li>A marsh wire or snow netting shall be erected around the exposed excavations to warn the public.</li> <li>The contractor must rip and rehabilitate temporal roads after project completion.</li> <li>The Contractor shall be in possession of an emergency oil and chemical spill kit, drip trays and bioremediation substances/enzymes that must be</li> </ul>			
<ul> <li>Stockpiled topsoil should not be compacted and should be replaced as the final soil layer. No</li> <li>plants.</li> <li>Incident</li> </ul>	-	5	<ul> <li>stockpile at a height of not more than 1m.</li> <li>Topsoil should be temporarily stockpiled, separately from (clay) subsoil and rocky material, when areas are cleared. If mixed with clay sub-soil the usefulness of the topsoil for rehabilitation of the site will be lost.</li> <li>Stockpiled topsoil should not be compacted and</li> </ul>	All Contractors	 Visual inspection	incorrect storage and harvesting.  Manifestation of alien invasive plants.

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<sup>1.</sup> Should there be any other Environmental related activities issued as non-compliance during construction, the contractor is liable to comply with those requirements

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vehicles are allowed access onto the stockpiles after they have been placed.	
Stockpiled soil should be protected by erosion-control berms if exposed for a period of greater than  14 days during the west assess and conded.	
<ul> <li>14 days during the wet season and seeded.</li> <li>Topsoil must be hydro seeded during shut down in</li> </ul>	
December.	
Topsoil stripped from different sites must be stockpiled separately and clearly identified as such.	
Topsoil obtained from sites with different soil types	
must not be mixed.	
Topsoil stockpiles must not be contaminated with	
oil, diesel, petrol, waste or any other foreign matter,	
which may inhibit the later growth of vegetation and micro-organisms in the soil.	
Soil must not be stockpiled on drainage lines or near	
watercourses without prior consent from the Project	
Manager.	
Soil should be exposed for the minimum time	
possible once cleared of invasive vegetation, that is	
the timing of clearing and grubbing should be co-	
ordinated as much as possible to avoid prolonged exposure of soils to wind and water erosion.	
Stockpiled topsoil must be either vegetated with	
indigenous grasses or covered with a suitable fabric	
to prevent erosion and invasion by weeds.	
Limited vehicular access is allowed across rocky	
outcrops and ridges.	
All cut and fill surfaces need to be stabilized with	
appropriate material or measures when major civil	
works are complete.  • Erosion and donga crossings must be dealt with as	
river crossings. Appropriate soil erosion and control	

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Protection of archaeological and heritage resources	6	procedures must be applied to all embankments that are disturbed and destabilized as per the Authorisation  All equipment must be inspected regularly for oil or fuel leaks before it is operated. Leakages must be repaired on mobile equipment or containment trays placed underneath immobile equipment until such leakage has been repaired.  Soil contaminated with oil must be appropriately treated and disposed of at a permitted landfill site or the soil can be regenerated using bio-remediation methods.  Runoff must be reduced by channelling water into existing surface drainage system.  Alert the construction workforce of the potential existence of artefacts at the site.  Empower staff to stop works on (chance) discovery of artefacts at the site.  Cease construction on (chance) discovery of archaeological sites of heritage importance or redirect machinery away from finds until an archaeologist is able to make a site inspection and establish the importance of the find and make recommendations for preservation and/or record keeping.  Report the presence of graves or human remains, fragments of fossil bone, ostrich egg and stone fragments to HWC.  Obtain a permit for the removal of artefacts from the	All Contractors/Jo hannesburg Water	Before     Construction     commences      During     earthworks	Visual inspection	•	Discovery of possible archaeological material Rescue and reporting of identified material when discovered
Protection of paleontological resources	7	<ul> <li>site if any are discovered during construction.</li> <li>Identify a stand-by palaeontologist to inspect fossils if they are discovered during construction activities.</li> </ul>	Johannesburg Water	Prior commencement	Visual inspection	•	Discovery of possible

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		<ul> <li>Empower staff to stop works on (chance) discovery of fossils at the site.</li> <li>Alert the construction workforce of the potential existence of fossils at the site.</li> <li>Cease construction on (chance) discovery of fossils and artefacts of paleontological importance or direct machinery away from finds until the identified</li> </ul>	All Contractors	During earthworks		•	archaeological material. Rescue and reporting of identified material when discovered.
		palaeontologist is able to make a site inspection and establish the importance of the find and make recommendations for preservation, collection or record keeping.					
Concrete / cement Work/Batching plant	8	<ul> <li>Use Ready-Mix concrete rather than batching where possible.</li> <li>Ensure that no cement truck delivery chutes are cleaned on site. Cleaning operations are to take place off site at a location where wastewater can be disposed of in the correct manner. If this is not possible a suitable washing facility is to be developed on site in consultation with the ECO.</li> <li>Concrete must be mixed only in an area demarcated for this purpose, ideally on an impervious surface (e.g., cement mixing pit).</li> <li>Batching operations to take place in a designated area, which will be kept clean at all times.</li> <li>All concrete spilled outside this area, must be promptly removed by the Contractor and taken to a permitted waste disposal site.</li> <li>After all concrete mixing is complete; all waste concrete must be removed from the batching area and disposed of at an approved dumpsite.</li> <li>Ensure separation of clean and dirty water from batching plant.</li> </ul>	All Contractors	Throughout construction	Visual inspection and JW EO/ECO approval.	•	Number of incidents of batching outside works footprint. Contamination of water and soil; and Visible litter / waste on site.

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	<ul> <li>Storm water must not be allowed to flow through the batching area. Water laden with cement must be collected in a retention area for evaporation and not allowed to escape the batching area.</li> <li>Operators must wear suitable safety clothing.</li> <li>Wastewater from batching operations to be suitably disposed of.</li> <li>Waste concrete and cement sludge to be removed on a regular basis (to prevent overflowing) and to be disposed of at a suitable facility.</li> <li>Unused cement bags will be stored in an area not exposed to the weather and packed neatly to prevent hardening or leakage of cement.</li> </ul>		
	<ul> <li>Used cement bags will be stored so as to prevent windblown dust and potential water contamination.</li> <li>Used bags will be disposed of adequately at a licenced waste disposal facility.</li> <li>Limit concrete batching to single sites where</li> </ul>		
	possible.		
	Cleaning of equipment and flushing of mixers will not result in pollution, with all contaminated wash water entering the wastewater collection system.		
	To prevent spillage onto roads, ready mix trucks will rinse off the delivery shoot into a suitable sump prior to leaving the site. The Contractor shall ensure such designated concrete wash bay area's/ sumps are created and that all concrete trucks delivering concrete to site first empty and clean their shoots at this point before leaving the site. The dried waste		

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product shall be handled as construction rubble.

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		<ul> <li>Suitable screening and containment will be in place to prevent windblown contamination from cement storage, mixing, loading and batching operations.</li> <li>All contaminated water and fines from exposed aggregate finishes will be collected and stored in sumps and will be adequately disposed of.</li> <li>All visible remains of excess concrete will be physically removed on completion of the plastering or concrete pouring and disposed of in an acceptable manner.</li> <li>Any spilled concrete to be cleaned up immediately.</li> <li>In practice all wastes arising from construction activities are to be handled; transported and disposed of in accordance with the relevant regulations. All efforts should be made to minimise, reclaim or recycle waste, and failing that, dispose of it in a manner licensed by the government for that purpose.</li> </ul>				
Water Management	9	<ul> <li>Con serve water wherever possible (e.g., ensure that areas are not watered excessively, and all leaking pipes are replaced and repaired immediately).</li> <li>Adequate erosion, runoff and sedimentation prevention, control and mitigation measures must be instituted at all sensitive areas, such as embankments, slopes, river crossings/watercourses/drainage lines, wetlands, when excavations or disturbance occurs within these areas, within the buffers, beds, and banks.</li> <li>These control measures must include use of silt fences/traps, sandbags, retention of vegetation, berms, immediate replacement of vegetation. Additionally, reno mattresses, riprap, stone pitching,</li> </ul>	All Contractors	Throughout construction/post construction	Visual inspection	<ul> <li>Incidence of storm water contamination.</li> <li>Visible leaks/water wastage.</li> <li>And Visible surface erosion.</li> </ul>

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	gabio	ons, use of geotextiles) e.g., biojute must be		
	used	at the direction of the JW Engineer.		
	<ul> <li>Adequ</li> </ul>	uate sedimentation control measures must be		
	institu	uted at any river crossings when excavations or		
	distur	rbance of a riverbanks or riverbeds takes place.		
	<ul> <li>Adequ</li> </ul>	uate sedimentation control measures must be		
	imple	emented where excavations or disturbance of		
	draina	age lines of a wetland may take place.		
	<ul> <li>All fue</li> </ul>	el, chemical, oil, etc. spills must be confined to		
		s where the drainage of water can be		
		olled. Use appropriate structures and methods		
		onfine spillages such as the construction of		
		s and pans, or through the application of		
		ce treatments that neutralise the toxic effects		
		to the entry into a water course.		
		drip trays and spill kits must be used to contain		
		om spilling into the water. Ensure adequate drip		
		are available.		
		ig construction through a wetland or		
		rcourse, the majority of the flow of the wetland		
		ld be allowed to pass downstream.		
		cular traffic across wetland and watercourse		
		s must be avoided.		
		umping of foreign material in streams, rivers		
		or wetland areas is allowed.		
		wetland area and/or river must not be drained,		
		or altered in any way including alteration of a		
		and/or, banks, without prior consent from the		
		The necessary licenses must be obtained in		
		s of Section 21 and 22 of the National Water		
	-	36 of 1998 from DWS.		
	• NO TIP	res or open flames are allowed in the vicinity of		

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#### DISCLAIMER

the wetland, especially during the dry season.

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		<ul> <li>No swimming, washing (including vehicles and equipment), fishing or related activity is permitted in a wetland or river.</li> <li>Disturbances to nesting, breeding and roaming sites of animals in or adjacent to wetland areas must be minimized.</li> <li>Portable Water shall be the last resort info dust suppression on site.</li> </ul>						
Air Pollution	10	<ul> <li>Speed limits must be implemented in all areas, including public roads and private property to limit the levels of dust pollution.</li> <li>Dust must be suppressed on access roads and construction sites during dry periods by the regular application of water or a biodegradable soil stabilisation agent. Water used for this purpose must be used in quantities that must not result in the generation of run-off.</li> <li>Where possible the use of potable water should be minimised for dust suppression purposes, preferably recycled or reused water.</li> <li>The site-specific investigation will quantify the impact of dust on nearby wetlands, rivers and dams in terms of sedimentation. Mitigation measures identified during the site-specific study must be implemented.</li> <li>The Contractor must notify the principal of all schools within 50m of the site of proposed activities. The principal must in turn ensure that children with allergies and respiratory ailments take the necessary precautionary measures during the construction period. The Contractor must ensure that construction activities do not disturb school</li> </ul>	All Contractors	Throughout construction	Visual inspection	•	Visible pollution.	air

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		<ul> <li>activities e.g., dust clouds may reduce visibility affecting sports activities.</li> <li>Waste must be disposed of, as soon as possible at a municipal transfer station, skip or on a permitted landfill site. Waste must not be allowed to stand or site to decay, resulting in malodours.</li> <li>Noise control measures must be implemented. Al noise levels must be controlled at the source. Al employees must be given the necessary ear protection gear. IAP's must be informed of the excessive noise factors.</li> <li>The Contractor must inform all adjacent landowners of any after-hour construction activities and any other activity that could cause a nuisance e.g., the application of chemicals to the work surface Normal working hours must be clearly indicated to adjacent landowners.</li> <li>No loud music is allowed on site and in construction camps.</li> <li>No fires are allowed if smoke from such fires will cause a nuisance to IAPs.</li> </ul>			
Social and cultural	11	<ul> <li>Access by non-construction people onto any construction sites must be restricted. The Contractors activities and movement of staff must be restricted to designated construction areas only.</li> <li>The Contractors crew must be easily identifiable due to clothing, identification cards or other methods.</li> <li>Rapid migration of job seekers could lead to squatting and social conflict with resident communities and increase in social pathologies in not properly addressed. The Contractor must ensure that signs indicating the availability of jobs are installed.</li> </ul>	Throughout construction	Visual inspection	<ul> <li>Community complaints.</li> <li>Complaints register.</li> <li>Daily environmental inspection</li> </ul>

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	Criteria for selection and appointment (by the Contractor) of construction labour must be established to allow for preferential employment of local communities. The Local Authority must be actively involved in the process of appointing temporary labourers.  Sub-Contractors and their employees must comply with all the requirements of this document and supporting documents e.g., the Contract document that applies to the Contractor. Absence of specific reference to the sub-contractor in any specification does not imply that the sub-contractor is not bound by this document.  No member of the construction workforce is allowed		
	to wander around private property, except within the immediate surroundings of the site.		
•	The Contractor must provide suitable sanitation facilities for site staff. Sanitation provided during the construction phase should be managed so that it does not cause environmental health problems. The use of the surrounding veld for toilet purposes is not permitted under any circumstance.		
•	The Contractor must arrange for all his employees and those of his sub-contractors to be informed of the findings of the environmental report before the commencement of construction to ensure:		
•	A basic understanding of the key environmental		
	features of the work site and environments, and		
•	Familiarity with the requirements of this document		
	and the site-specific report.		

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Supervisory staff of the Contractor or his subcontractors must not direct any person to undertake any activities which would place such person in

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	1				T	I
		<ul> <li>contravention of the specifications of this document endanger his/her life or cause him/her to damage the environment.</li> <li>The demand for construction materials and supplies will have an effect on the local economy. This impact can be optimised by sourcing and purchasing materials locally and regionally wherever possible, insofar as the material complies with the design specification.</li> <li>The Contractor must maintain a detailed complaints register. This must be forwarded, together with solutions, to the authorities when requested.</li> </ul>				
Aesthetics	12	<ul> <li>Scenic Quality</li> <li>Damage to the natural environment must be minimized.</li> <li>The contractor may not remove any trees. If trees are in the way of the pipe route or with the development sites, the contractor must inform the environmental section who will then liaise with city parks for permission or recommendation.</li> <li>Trees and tall woody shrubs must be protected from damage to provide a natural visual shield. Excavated material must not be placed on such plants and movement across them must not be allowed, as far as practical.</li> <li>The clearing of all sites must be kept to a minimum and surrounding vegetation must, as far as possible, be left intact as a natural shield.</li> <li>No painting or marking of natural features must be allowed.</li> <li>Above-ground Structures (reservoirs, water</li> </ul>	All Contractors	Throughout construction	<ul> <li>Visual inspection.</li> <li>Way-leaves</li> </ul>	<ul> <li>Daily inspection</li> <li>Environmental incident.</li> </ul>
		hammer tanks, valve chambers, pump stations etc.)				

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		<ul> <li>All above ground structures should be located in areas where the visual impact from roads, houses etc. is minimised.</li> <li>All above ground structures could be treated or painted to blend in with the natural environment.</li> <li>Cut and fill areas, river and stream crossings and other soil stabilisation works must be constructed to blend in with the natural environment.</li> <li>Natural outcrops, rocky ridges and other natural linear features must not be bisected. Vegetation on such features must, as far as possible, not be cut unless absolutely necessary for construction.</li> <li>Excavated material must be flattened (not compacted) or removed from site. No heaps of spoil material must be left on site once the Contractor has moved to a new construction site.</li> <li>Any complaints from IAP's regarding the appearance of the construction site must be recorded and addressed promptly by the Contractor.</li> </ul>				
Fauna and Flora	13	Flora	All Contractors	Throughout	<ul> <li>Visual</li> </ul>	Environmental
		All suitable and rare flora and seeds must be rescued and removed from the site. They must be		construction	inspection  • Way-leave	incident register
		suitably stored, for future use in rehabilitation.			from City	Daily
		The felling and/or cutting of trees and clearing of			Parks.	inspection
		bush must be minimised.			Biodiversity     From	Number of
		Bush must only be cleared to provide essential access for construction purposes.			permit from Gauteng	environmental incidents.
		<ul> <li>The spread of alien vegetation must be minimized.</li> </ul>			Department	Fauna and
		Any incident of unauthorised removal of plant			of Rural and	flora removal
		material, as well as accidental damage to priority			Development	and relocation
		plants, must be documented by the Contractor.				register
		<ul> <li>Woody vegetative matter stripped during construction must either be spread randomly</li> </ul>				
	1	construction must either be spread famuomily				

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		throughout the surrounding veld to provide biomass for other micro-organisms and habitats for small mammals and birds, or it may be stockpiled for later redistribution over the reinstated top soiled surface. No vegetative matter must be burnt or removed for firewood other than those removed during the grubbing and clearing phase. Such vegetation can be made available to the local inhabitants to be used as firewood.  • No tree outside the footprint of the Works area must be damaged.				
		Fauna				
		No species of animal may be poached, snared, hunted, captured, or wilfully damaged or destroyed.				
		<ul> <li>Snakes and other reptiles that may be encountered on the construction site must not be killed unless the animal endangers the life of an employee.</li> </ul>				
		Anthills and/or termite nests that occur must not be disturbed unless it is unavoidable for construction purposes.				
		Disturbances to nesting sites of birds must be minimized.				
		The Contractor must ensure that the work site is kept clean and free from rubbish, which could attract pests.				
Infrastructure	14	<ul> <li>The relevant authorities must be notified of any interruptions of services, especially the Local Municipality, National Road Agency, Transnet, TELKOM, and ESKOM. In addition, care must be taken to avoid damaging major and minor pipelines and other services.</li> <li>The integrity of property fences must be maintained.</li> </ul>	All Contractors	Throughout construction	<ul> <li>Visual inspection</li> <li>Wayleaves from different entities.</li> </ul>	<ul> <li>Incident register.</li> <li>Permit/ Way-leave register</li> <li>Complaints register.</li> </ul>

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No telephone lines must be dropped during the construction operations, except where prior agreement by relevant parties is obtained. All crossings must be protected, raised or relocated as necessary.  All complaints and/or problems related to impacts on man-made facilities and activities must be promptly addressed by the Contractor and documented.  Proper storage facilities should be provided for the storage of oils, grease, fuels, chemicals and hazardous materials.  The Contractor must ensure that accidental spillage does not pollute soil and water resources.  Fuel stock reconciliation must be done on all underground tanks to ensure no loss of oil, which could pollute groundwater resources.  Cement must be stored and mixed on an impermeable surface.  The Contractor shall ensure that existing services (e.g., roads, pipelines, and power lines and telephone services) are not damaged or disrupted unless required by the contract and with the permission of the RE.  The Contractor shall be responsible for the repair and reinstatement of any existing infrastructure that	
is damaged or services which are interrupted.  • A time limit for the repairs may be stipulated by the RE in consultation with the Contractor.	
	ncident
property.  Noise mufflers and/or soft explosives must be used  construction  Engineer report  C	register. Complaints register.

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		<ul> <li>All the provisions of the Explosives Act, 26 of 1956 and the Minerals Act, 50 of 1991 must be complied with.</li> <li>The Contractor must take measures to limit fly rock.</li> <li>Certificate of competence. In file</li> <li>Blasting permit must be obtained from the South African police station issued in terms of section 9 of explosive Act, Act 26 of 1956) prior blasting.</li> <li>Method statement for drilling and blasting (NB: Submitted for acceptance before any works) in file</li> <li>Provide the MSDS's for the chemicals are to be used.</li> <li>Proof of notification to the affected community.</li> <li>The Appropriate PPE.</li> </ul>				Permit register.
Workshops, storage areas and materials handling	16	<ul> <li>These areas shall be chosen so as to cause the least impact on the biophysical and social elements of the area.</li> <li>The siting of workshops, maintenance and refuelling sites and materials storage areas shall not be in the vicinity of sensitive sites e.g., wetlands, cultivated fields or drainage lines, or where local landowners can be disturbed.</li> <li>Storm water shall be diverted around the storage area. Storm water falling on the storage area shall be discharged if it meets the required water quality standards.</li> <li>Proper storage facilities, placed on an impermeable surface, shall be provided for the storage of oils, grease, fuels, chemicals, and other hazardous materials to be used during the construction phase of the project. If fuel is required on site, it shall be stored in a secure area in a steel tank supplied and</li> </ul>	All Contractors	Throughout Construction	Visual inspection Method statement for handling hazardous substances. MSDS  Visual inspection Method statement for handling hazardous substances.	<ul> <li>Hazardous substances register.</li> <li>MSDS file</li> <li>Spill register</li> <li>Incident register.</li> </ul>

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maintained by the fuel suppliers. Leakage of fuel
shall be avoided.
An adequate bund wall, 110% of volume, shall be
provided for fuel and diesel areas to accommodate
any spillage or overflow from these substances. The
area inside the bund wall shall be lined with an
impervious lining to prevent infiltration of the fuel into
the soil.
In addition, hazard signs indicating the nature of the
stored materials shall be displayed on the storage
facility or container and Material Safety Data Sheets
(MSDS's) will be made available for all hazardous
chemicals. Before containers or storage facilities are
erected, emergency procedures in the event of
misuse or spillage that may negatively affect an
individual or the environment will be in place.
The storage facilities (including any tanks) shall be
surrounded by a bund wall, in order to ensure that
accidental spillage does not pollute local soil or
water resources.
The storage areas shall not be utilised for
accommodation purposes and shall be access
controlled.
The storage area shall be kept tidy, and the area
shall be rehabilitated after use.
An inventory of any hazardous     An arrivals (substances (including that within))
chemicals/substances (including that within
equipment) kept on site, along with a description of
possible ill effects and treatment of health-related
afflictions resulting from accidents, shall be kept in
the storage area as well as by the appropriate

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manager. These areas shall be securely fenced.

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Gas welding cylinders and LPG cylinders shall be
stored in a secure, well-ventilated area.
A notice board with the contact details of the
responsible party shall be displayed at the gate to
the storage area.
The contractor shall ensure that any delivery drivers
are informed of all procedures and restrictions
required to comply with the EMP. Someone with an
adequate understanding of the CEMP shall
supervise drivers during delivery and off-loading.
All vehicles and machinery will be inspected for any
leaks or malfunctions regularly. Vehicle servicing or
repairs is prohibited from site, unless in an
emergency.
Drip trays shall be inspected and emptied daily and
serviced when necessary. In particular drip trays
shall be closely monitored during rain events to
ensure that they do not overflow. The contents must
be disposed of at a recognised site.
All repairs done on machinery using hydrocarbons
as fuels or lubricants shall have a drip tray placed
strategically to avoid incidental spillage.
Workers shall be made aware of the health risks
associated with any hazardous substances used
(e.g., smoking near refuelling depots), and shall be
provided with appropriate protective clothing /
equipment in case of spillages or accidents.
Cement and other potential environmental
pollutants shall be stored and mixed on plastic
sheeting or ready-mix trucks shall be used. There
shall be no opportunity for environmental

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contamination.

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	<ul> <li>Workshop areas shall be monitored for oil and fuel spills and such spills shall be cleaned and remediate to the satisfaction of the EO.</li> <li>The Contractor shall be in possession of an emergency spill kit that must be always complete and available on site.</li> </ul>				
Waste Management 17	Methods for waste management and waste minimisation shall be implemented from the outset of the contract as per the Waste Management Plan to be submitted to Client. All personnel shall be instructed to dispose of all waste in the proper manner. A waste avoidance and minimisation approach will be encouraged for the duration of the project. The following steps in order will be applied.  • Prevention – avoid and minimise waste • Recycle – reuse and recover all general waste • Treat – treatment to reduce toxicity reduce waste quantities • Dispose – waste removal into a registered landfill facility  Solid waste  Waste with the potential for market re-use will be stored in separate containers, this includes, scrap metal, used tyres and paper. This waste will be recycled wherever possible. Solid waste shall be temporarily stored in tip – poof metal drums or waste skips at an approved area on site for collection and disposal. This area shall be away from drainage lines or water courses.  • All general waste drums or skips will be appropriately labelled GENERAL WASTE	All Contractors	Throughout Construction	Visual inspection/En vironmental inspection checklist.  Legal Documents: Transport certificate obtained from GDARD for transporting general or hazardous waste.  Transport certificate obtained from City of Johannesbur g for transporting general waste within COJ.  Waste manifest/	<ul> <li>Littering</li> <li>Soil         contamination</li> <li>Water         pollution.</li> </ul>

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	_
<ul> <li>A refuse control system shall be established for the collection and removal of refuse to the satisfaction of Client and ECO.</li> <li>No waste shall be burned at the site offices or anywhere else on the site.</li> <li>All building rubble shall be a) removed from the site and disposed of at an appropriate dumping site, or b) temporarily stored in a clearly demarcated area on site for future use.</li> <li>All waste shall be disposed at an appropriate waste disposal facility.</li> </ul>	waste disposal certificate/ weighbridge slip.
Litter	
<ul> <li>No littering by construction workers shall be allowed. During the construction period, the facilities shall be maintained in a neat and tidy condition and the site shall be kept free of litter.</li> <li>Measures shall be taken to reduce the potential for litter and negligent behaviour with regard to the disposal of all refuse.</li> <li>Littering, discarding or burying of any materials shall not be allowed on site.</li> </ul>	
Hazardous waste	
<ul> <li>Hazardous waste shall be temporarily stored in tip – poof metal drums or waste skips at an approved area on site for collection and disposal. This area shall be away from drainage lines or water courses.</li> <li>All hazardous waste drums or skips will be</li> </ul>	

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Hazardous waste must not be temporary store site for a period exceeding 90 days as pe National Environmental Management Waste (Act 59 of 2008) as amended in 2014) (Schedu (2)).	r the e Act
HAZARDOUS WASTE.	
Hazardous waste such as bitumen, tar and oil be disposed of at a registered waste displaced facility. Special care shall be taken to avoid spin of tar products such as tar prime or pre-coating to avoid water-soluble phenols from entering ground or contaminating water.	posal illage g fluid g the
All used filter materials shall be stored in a set bin for disposal off site. Any contaminated soil be removed and replaced with clean soil. contaminated by oils and lubricants shal collected and disposed of at a facility designate the local authority to accept contaminated mate	shall Soil I be ed by
Used oil, lubricants, and cleaning materials from maintenance of vehicles and machinery shat collected in a holding tank and returned to supplier. Water and oil shall be separated in a trap. Oils collected in this manner shall be retain a safe holding tank and removed from site specialist oil recycling company for disposal approved hazardous waste disposal site. collected by a mobile servicing unit shall be sin the service unit's sludge tank and discharged the safe holding tank for collection by the special recycling company.	all be to the tean oil tean oi
<ul> <li>Sludge should be managed in accordance with</li> </ul>	h the

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#### DISCLAIME

Sludge Guideline 2010.

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•	Sludge should be kept only at the drying bed and no
	sludge should be stored at a permeable ground or
	natural ground.

 Hazardous waste shall be disposed of at a registered hazardous waste disposal site, disposal certificates shall be kept in the site file for record.

#### **Medical Waste**

- All medical waste will be contained in the special bins provided. All sharp needles must be separated from other medical waste,
- All outdated and disused medicines will be disposed of as a hazardous medical waste or returned to the supplier for disposal. (Tablets and syrups will be crushed and/or dissolved before disposal as hazardous waste),
- Medical waste used on personnel coming for treatment at the clinic are to be placed on a demarcated container storage room,
- The Occupational Health Nurse (OHN) will notify a service provider for removal of the medical waste prior exceeding 90 days.
- The service provider to provide Waste Manifest as well as the Safe Disposal Certificate, to the OHN who will maintain the copies of the waste manifest and safe disposal certificate.
- The OHN will arrange for an approved hazardous waste disposal company to collect and dispose of this medical waste. The OHN is responsible for and authorised to keep all records in connection herewith (disposal certificates).

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Ablution facilities	18	•	Provide ablution facilities (i.e., chemical toilets) for	All Contractors	Throughout	•	Visual	•	Incidence	of
			all site staff at a ratio of 1 toilet per 15 workers		construction		inspection		staff not us	sing
			(absolute minimum 1:25).			•	Records of	Fac	ilities	
		•	Secure all temporary/portable toilets to the ground				waste		Incidence	of
			within the Site Camp to the satisfaction of JW				manifest/disp		pollution	
			EO/ECO to prevent them toppling due to wind or any				osal			
			other cause.				certificates/			
		•	Maintain toilets in a hygienic state (i.e., toilet				weighbridge			
			dispensers to be provided, toilets to be cleaned and				slip			
			serviced regularly (by registered appropriate waste contractor), and toilets to be emptied before long							
			weekends and builders' holidays).							
			Remove/ appoint an appropriate supplier to remove							
			accumulations of chemicals and treated sewage							
			from the site and dispose of at an approved waste							
			disposal site or sewage plant.							
		•	Ensure that no spillages occur when the toilets are							
			cleaned or emptied. Repeated incidents of spillage							
			of chemicals and or waste (i.e., more than one							
			incident), will require toilets to be placed on a solid							
			base with a sump.							
		•	Ablution facilities must be located at least 50m from							
			any watercourse.							
		•	Ablution facilities shall be provided on site.							
		•	The positioning of the ablution facilities shall be							
			done in consultation with Client and shall be placed							
			so that it cannot contaminate the natural streams and rivers. One toilet shall be provided per 10 staff							
			members on site. Toilets shall be positioned within							
			walking distance of wherever employees are							
			employed on the site. Toilets shall be provided with							
			locks and doors shall be secured to prevent the							
	1		it is a second criain as accorded to provone the			l		1		

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toilets from blowing over.

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•	The	toilets	shall	be	placed	outside	of	areas
	susc	eptible t	o flood	ling.				

- Chemical toilets shall be serviced regularly by an authorised service provider and removed to a registered wastewater treatment works and disposal certificates shall be obtained from the waste disposal facility for each disposal and retained on site.
- Polluted run-off must be discharged in the local sewerage main and not overland or into public streams. In instances where a sewerage main is not available, polluted run-off will be collected in subsurface tanks and a reputable effluent removal contractor will be contracted to dispose of the waste in an environmentally acceptable manner. Official documentation shall be obtained from the waste disposal facility for each disposal and retained on site.
- Toilets situated close to the site boundaries or within sight of residential areas shall be hidden behind screens or other cover as approved by the Engineer.
- Discharge of waste from toilets into the environment and burial of waste is strictly prohibited.
- Only flushable toilets should be utilised on site.
- If the Ablution facilities are to be connected to the Municipal sewer line, method statement and a letter for municipal tax and rates should be submitted to JW Environmental section and responsible Depot for approval.
- A letter or agreement for disposing waste must be obtained from the applicable WWTW; this must be provided by service provider. Waste manifests, disposal certificates and service certificates are

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		required; these must be provided by service provider.  • The contractor shall not appoint service providers who do not have registration certificates with GDARD and CoJ for transporting hazardous (and general waste), and copies of permits for landfills, and agreement letter from WWTW, to be used for disposals. The contractors themselves are encouraged to register as general and hazardous waste transporters, and open accounts with Pikitup, so disposal slips may be obtained.				
Access road and traffic control	19	<ul> <li>Access Roads</li> <li>The Contractor and the affected landowner must collaborate on the planning and construction of new access routes and the repair or upgrading of existing routes.</li> <li>Access to the site must be controlled such that only vehicles and persons directly associated with the work gains access to the site.</li> <li>Temporary access roads must not be opened until</li> </ul>	All Contractors	Throughout construction	<ul> <li>Method statement for access road and traffic control.</li> <li>Way-leave</li> </ul>	<ul> <li>Daily         Inspection             checklist.     </li> <li>Environmental             incident.</li> <li>Incident             register.</li> </ul>
		required and must be restored to its former state as soon as the road is no longer needed.  Traffic Control  All reasonable precautions must be taken during construction to avoid severely interrupting the traffic flow on existing roads, especially during peak periods.  Before any work can start the Local Traffic, Department must be consulted about measures to be taken regarding pedestrian and vehicular traffic control and obtain proper road signage's				

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Electrical	20	<ul> <li>Measures must be taken during thunderstorms to protect workers and equipment from lightning strikes.</li> <li>All tall structures must be properly earthed and protected against lightning strikes.</li> </ul>	All Contractors	Throughout construction	<ul><li>Permit</li><li>OHS     approval     letter</li><li>Wayleave</li></ul>	<ul><li>Approval letter</li><li>Electrical certificate</li></ul>
Development Footprint	21	<ul> <li>The development footprints and disturbed areas surrounding the proposed project infrastructure should be kept at minimum as possible and the areas cleared of natural vegetation and topsoil must be kept to a minimum.</li> <li>The extent of all development footprint areas and permanent/ temporary structures must be limited to what is essential.</li> <li>As far as possible, existing roads are to be utilised, to limit cumulative impacts from roads and traffic.</li> <li>The height of any temporary structures such as topsoil stockpiles should be kept as low as possible below 1m.</li> </ul>	All Contractors	Throughout construction	<ul><li>Agreement letter.</li><li>Wayleave</li></ul>	<ul> <li>Incident register.</li> <li>Complaints register.</li> </ul>
Fire Prevention	22	<ul> <li>The Contractor must take all the necessary precautions to protect the materials on site and to avoid veld fires.</li> <li>No fires or open flames are allowed on site unless directly used for construction purposes,</li> <li>Review all SANS standards relating to fire precautions and fire control namely, SANS 0131-3 Section 8 and SANS 089-1 or as amended.</li> <li>The Contractor must have fire-fighting equipment and a first aid box available on site and on all vehicles working on site.</li> <li>All waste bins must be kept away from fuel tank installations.</li> </ul>	All Contractors	Throughout construction	<ul> <li>Visual inspection</li> <li>Emergency Response Plan.</li> </ul>	<ul> <li>Fire extinguisher inspection checklist.</li> <li>Incident register</li> <li>Mock drill report.</li> </ul>

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		<ul> <li>All fuel tanks must be installed above ground, depending on the volume of stored fuel, for easy detection of fuel leaks.</li> <li>Any welding or other sources of heating of materials must be done in a controlled environment, wherever possible and under appropriate supervision, in such a manner as to minimise the risk of veld fires and/or injury to staff.</li> <li>Fires lit for comfort (warmth) must be actively discouraged by the Contractor, due to the risk of veld fires and the risk to adjacent properties. Also, no waste material must be burnt.</li> </ul>					
Noise Pollution	23	<ul> <li>Temporary noise pollution due to construction works should be controlled by proper maintenance of equipment and vehicles and tuning of engines and mufflers. Construction works should be completed in as short a period as possible by assigning qualified engineers and foremen.</li> <li>It is the responsibility of the Contractor to monitor for the mitigation of such impacts. Noise problems should be reduced to normally acceptable levels by incorporating low-noise equipment in the design and/or locating such mechanical equipment in properly acoustically lined buildings or enclosures. In the presence of adequate buffer zones between the facility and residential areas, noise control measures must be minimized.</li> </ul>	All Contractors	Throughout Construction	Random noise measurements	•	Results of random noise measurement s Number of registered complaints
Complaints	24	Maintain complaints register for all complaints. The register must list:  Complainant name and contact details.  Date complaint was lodged.  Person who recorded the complaint.  Nature of the complaint.	All Contractors	Throughout construction	Complaints register	•	Availability of register on site Designated person to maintain register

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	<ul> <li>Actions taken to investigate the complaint and</li> <li>outcome of the investigation.</li> <li>Action taken to remedy the situation.</li> <li>Date on which feedback was provided to complainant.</li> </ul>			<ul> <li>Complaints logged</li> <li>Complaints followed up and Closed out.</li> </ul>
Housekeeping 2	<ul> <li>All construction and operational areas must be kept in a neat and orderly condition at all times.</li> <li>An efficient removal system of waste and rubble must be ensured during all development phases.</li> <li>All operational facilities, including vehicles, should be actively maintained.</li> <li>Any areas for material storage, waste sorting and other potentially intrusive activities must be screened from view as far as considered feasible.</li> <li>Regularly inspect all construction machinery and holding tanks for leaks or damages.</li> <li>Place generators on drip trays.</li> <li>Repair any defects as soon as possible. In the case of leaks, ensure that the leaking water or effluent is captured and not released into the environment.</li> <li>Service and refuel equipment that uses hydrocarbon fuels, oils, lubricants, and other hazardous chemicals at the designated area at the Site Camp only under conditions approved by JW EO/ECO</li> <li>Ensure that absorbent pads (or equivalent) and/ or drip trays are available to collect any oil, fluid, etc. in the case of a breakdown or emergency repair outside the designated area. Keep a copy of fuels and hazardous substance inventory on site.</li> <li>Keep spill containment and clean-up equipment at all work sites and for all polluting materials used at the site.</li> </ul>	Throughout	Visual inspection of site camp/ construction site	Regular inspection reports by SHE Officer and JW EO

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		<ul> <li>Prevent discharge of any hazardous substances or pollutants, such as cements, concrete, chemicals, and other contaminated wastewater and fuels into the ground, surface, or storm water systems on site.</li> <li>Control litter and keep construction areas as clean and neat as possible.</li> </ul>				
Transportation and refuelling	26	<ul> <li>Undertake regular maintenance of vehicles and machinery to identify and repair minor leaks and prevent equipment failures.</li> <li>Undertake any on-site refuelling and maintenance of vehicles/machinery in designated areas. Line these areas with an impermeable surface and install oil traps.</li> <li>Ensure that oils and lubricants used for maintenance of equipment in the field are correctly contained.</li> <li>Use appropriately sized drip trays for all refuelling and/or repairs done on machinery – ensure these are strategically placed to capture any spillage of fuel, oil, etc.</li> <li>Use drip trays under all equipment and plants that are parked overnight or for long periods.</li> <li>Store and handle fuels, oils and chemicals so as to avoid the risk of spillage, i.e., in waterproof and impervious</li> </ul>	All Contractors	Throughout Construction	Visual inspection of vehicles, barges, machinery and refuelling / maintenance areas	Incidence of non-compliance     Incidence of leaks and spills     Cost of cleaning up spills
Safety and Security	27	<ul> <li>Do not allow any open fires on the site.</li> <li>Do not allow smoking on the site except within designated areas. Suitable fire-fighting equipment must be readily available in these areas.</li> <li>Equip all fuel stores and waste storage areas with fire extinguishers.</li> </ul>	All Contractors	Throughout construction	Inspect attendance register for training sessions     Inspect fire extinguishers	<ul> <li>Number of fire incidents</li> <li>Certified extinguishers in appropriate locations</li> </ul>

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		<ul> <li>Ensure that all personnel on site are aware of the location of fire-fighting equipment on the site and how the equipment is operated.</li> <li>Suitably maintain fire-fighting equipment.</li> <li>Ensure that emergency procedures (in relation to fire, spills, contamination of the ground, accidents to employees, use of hazardous substances, etc.) are established prior to commencing construction.</li> <li>Make all emergency procedures available, including responsible personnel, contact details of emergency services, etc. to all the relevant personnel. Clearly demarcate emergency procedures at the relevant locations around the site.</li> <li>Secure the Site Camp, particularly to restrict</li> <li>Unauthorised access to fuels and other hazardous substances.</li> <li>Provide suitable emergency and safety signage on site and demarcate any areas which may pose a safety risk (including hazardous substances, deep excavations, etc.).</li> <li>Advise the ECO of any emergencies on site, together with a record of action taken.</li> </ul>	All Contractors	Before and during construction	and certificates  Visual inspection	Number of safety / emergency incidents.
Response to environmental pollution	28	<ul> <li>In the event of environmental pollution, e.g., through spillages, immediately stop the activity causing the problem.</li> <li>Maintain relevant Material Safety Data Sheets (MSDS) at the site for all potentially hazardous substances (as defined in the regulations for hazardous chemical substances). In the event of an emergency, procedures detailed in the MSDS shall be followed. Clean up any spills immediately, through containment and removal of free product and appropriate disposal of contaminated soils.</li> </ul>	All Contractors	Throughout construction	<ul> <li>Maintain         register of         pollution         events and         response</li> <li>Following         resumption of         activities,         frequently         inspect         repaired</li> </ul>	<ul> <li>Number of incidents</li> <li>Time activities stopped</li> <li>Number of recurring Incidents</li> <li>Availability and 65completene ss of register</li> </ul>

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		Immediately remediate and rehabilitate areas in the			equipment to	
		event of a spill of an environmentally hazardous			ensure	
		substance.			proper	
		Only resume activity once the problem has been			functioning	
		stopped or (in the case of spillages) the pollutant				
		can be captured without reaching the environment.				
		Repair faulty equipment as soon as possible.				
		Treat hydrocarbon spills, e.g., during refuelling, with				
		adequate absorbent material, which then needs to				
		be disposed of at a suitable landfill.				
		• Ensure a quantity of appropriate remedial agent,				
		capable of containing and/or remediating a				
		hydrocarbon spill is available on site at all times in				
		case of an emergency spill. The material shall be				
		capable of handling a spill of at least 200l.				
		Report all fuel, oil or hydraulic fluid spills to the JW				
		EO/ECO so that appropriate clean-up measures can				
		be implemented.				
		• Report all incidents within 24 hours to JW				
		environmental section.				
		All environmental incidents must be investigated				
		within seven (7) working days.				
Storm Water	28	Objective	All Contractors	Throughout	Visual	Daily
Management		To minimise erosion of soil from site during		Construction	inspection.	inspection
		construction.			Storm water	checklist.
		To minimise deposition of soil into drainage.			management	<ul> <li>Incident</li> </ul>
		Minimise loss of vegetation cover due to			Plan.	register.
		construction related activities.			<ul> <li>Way-leave</li> </ul>	
					from JRA	
		Mitigation Measures				
		Identify and demarcate construction areas for				
		general construction work and restrict construction				
		activity to these areas. Prevent unnecessary				

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Re-vegetation, Rehabilitation, Reinstatement	29	destructive activity within construction areas (prevent over-excavations)  Stockpile topsoil for re-use in rehabilitation phase. Maintain stockpile shape and protect from erosion. All stockpiles must be positioned at least 50 m away from drainage lines and wetlands.  Erosion control measures: Run-off control and attenuation on slopes (sandbags, logs), silt fences, storm water channels and catch-pits, shade nets, soil binding, geofabrics, hydro seeding or mulching over cleared areas.  Control depth of excavations and stability of cut faces/sidewalls.  Compile a comprehensive storm water management plan as part of the final design of the project and implement during construction and operation.  Objective  To ensure re-vegetation and rehabilitation of disturbed areas is undertaken	All Contractors	Throughout Construction	Rehabilitation     Plan	Daily inspection checklist.
		Legislation and Standards Conservation of Agricultural Resources Act (Act 43 of 1983 Environment Conservation Act (Act 73 of 1989 National Forestry Act (Act 84 of 1998 National Environmental Management Act 107 of 1998 and Gauteng Nature Conservation Bill, 2014.			<ul> <li>JW EMP</li> <li>Visual inspection</li> <li>Ecologist Specialist report</li> <li>Environment al</li> </ul>	<ul> <li>Rehabilitation report</li> <li>Waste management collection report (Waste Disposal</li> </ul>
		Mitigation measures In order to meet this goal, the following objective, actions, and monitoring requirements are relevant:  Disturbed areas must be rehabilitated/re-vegetated with appropriate natural vegetation and/or local			Authorisation/ GA  Practical and completion certificate.	Certificate).

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· · · · · · · · · · · · · · · · · · ·	seed mix. Re-use native/indigenous plant species removed from disturbance areas in the rehabilitation phase as per the re-vegetation and rehabilitation management plan.  Alien/non-native species must not be used. If these are requested/ required by stakeholders, then this must be documented by contractor.  Re-vegetated areas may have to be protected from wind erosion and maintained until an acceptable plant cover has been achieved.  On-going alien plant monitoring and removal within the disturbed project footprint (where the initial clearing for construction took place) must be undertaken on all areas of natural vegetation on an annual basis.  All temporary facilities, equipment and waste materials must be removed from site and appropriately disposed of.  All temporary access road must be rehabilitated to their original condition  Necessary drainage works and anti-erosion measures must be installed, where required, to minimise loss of topsoil and control erosion.  On-going inspection of rehabilitated areas to determine effectiveness of rehabilitation measures implemented.  On-going alien plant monitoring and removal should be undertaken as per the approved Rehabilitation/Re-vegetation plan.  Management and Mitigation Requirement	Community Happy Letters.
	<ul> <li>Conduct a detailed search of at the area. As a minimum, this should take place during the</li> </ul>	

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Practical and Final completion inspection	30	spring and summer months prior to impoundment so positive identification of flowering plants can be made. This should be done taking due cognisance of specialist studies already undertaken as part of the EIA process;  • Allow time for additional searches if these are deemed necessary, based on progress and diversity of plant species found;  • Identify and physically mark all conservation worthy plants found on the ground; and  • Capture markers and reference in a retrievable system, so that these can be located again for transplanting (e.g., using a combination of aerial photography, GPS, and GIS, as appropriate).  • Ensure that practical inspection is conducted before the Contractor hands over the project back to JW in order to ascertain if the reinstatement or rehabilitation has been done accordingly.  • The snag list is to be compiled and accepted by all parties (JW CAPEX Representatives, JW environmental section as applicable, and appointed Contractor) All responsible personnel including Environmental representative sign both practical and final completion letter.	CAPEX/ OHSE& DM/ All Contractors	During the final stage of project	Meeting invite     Visual inspection	Meeting invite     Attendance     register     Snag list     Signed     practical and     final     completion     inspection     letter.
Final close out report	31	<ul> <li>Conduct final audit on site.</li> <li>EO must ensure that audit reports are signed by RE/Engineer and Contractor.</li> <li>Environmental File is returned to JW, after rehabilitation has been deemed successful.</li> </ul>	OHSE & DM	During the final stage of project.	<ul><li>Final audit report.</li><li>Signing of Audit reports.</li></ul>	<ul> <li>Final Audit report.</li> <li>Signed Audit report.</li> <li>Environmental file.</li> </ul>

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### Table 3: Environmental Management and Mitigation Measures that must be implemented during the Operational Phase

	Operational Phase Measures						
Aspects II	D	Mitigation Measure/Procedure	Responsible	Implementation Timeframe	Monitoring Methods	Performance indicators	
Waste Management 1		<ul> <li>Ablution facilities</li> <li>Ablution facilities shall be provided on site.</li> <li>The positioning of the ablution facilities shall be done in consultation with Client and shall be placed so that it cannot contaminate the natural streams and rivers. One toilet shall be provided per 15 staff members on site. Toilets shall be positioned within walking distance of wherever employees are employed on the site. Toilets shall be provided with locks and doors shall be secured to prevent the toilets from blowing over.</li> <li>The toilets shall be placed outside of areas susceptible to flooding.</li> <li>Chemical toilets shall be serviced regularly by an authorised service provider and removed to a registered wastewater treatment works and disposal certificates shall be obtained from the waste disposal facility for each disposal and retained on site.</li> <li>Polluted run-off must be discharged in the local sewerage main and not overland or into public streams. In instances where a sewerage main is not available, polluted run-off will be collected in subsurface tanks and a reputable effluent removal contractor will be contracted to dispose of the waste in an environmentally acceptable manner. Official documentation shall be obtained from the waste</li> </ul>	Johannesburg Water	During operation and maintenance activities	<ul> <li>Visual inspection of Waste collection and disposal areas.</li> <li>Visual inspection of site.</li> <li>Check waste disposal slips.</li> <li>Monitor activities against JW Waste Managem ent Plan.</li> <li>Waste Inventory Register.</li> </ul>	<ul> <li>Presence of litter</li> <li>Availability of waste bins and skips.</li> <li>Degree to which rubbish bins and skips are filled</li> <li>Total volume of general and hazardous waste storage capacity</li> <li>Total volume of general and hazardous waste stored on site</li> <li>Degree to which different waste is separated.</li> <li>Frequency of waste collection.</li> <li>Total volume of recycled and reused waste.</li> </ul>	

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		<ul> <li>disposal facility for each disposal and retained on site.</li> <li>Any cooking on Site shall be done on well-maintained gas cookers with fire extinguishers present. No cooking shall be permitted to occur on open fires.</li> <li>Toilets situated close to the site boundaries or within sight of residential areas shall be hidden behind screens or other cover as approved by the Engineer.</li> <li>No spillage shall occur when the toilets are cleaned or emptied and the contents shall be properly stored and removed from site.</li> <li>Discharge of waste from toilets into the environment and burial of waste is strictly prohibited.</li> <li>All building rubble and rubble from the demolished structures, solid and liquid waste must be disposed of as necessary at an appropriately licensed refuse facility.</li> <li>Ensure that no refuse wastes are burnt on the premises or on surrounding premises. No fires will be allowed on site.</li> </ul>					
		Contaminated water  Workshops, refuelling depots and washing areas shall be bunded.  Any wastewater or spilled fuel collected within bunded areas around the refuelling area shall be disposed of as hazardous waste  Wastewater containing hydrocarbons, paints oil etc.					
Protection of Vegetation	2	shall be treated as hazardous waste     Limit the footprint of the maintenance and operational activities to the minimum to minimise environmental damage.	Johannesburg Water	During operation and maintenance activities/.	Visual inspection	<ul> <li>Incidents vegetation damage.</li> </ul>	of

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		<ul> <li>Designate vegetated areas outside the development footprint as "No go" areas.</li> <li>Limit the off-road driving within the Johannesburg Water Sites.</li> <li>Protected or endangered species of plants shall not be removed unless they are interfering with a structure.</li> <li>All trees and vegetation cleared from the site shall be cut into manageable lengths.</li> <li>Big trees with large root systems shall be cut manually and removed, as the use of a bulldozer will cause major damage to the soil when the root system are removed.</li> <li>Stumps shall be treated with herbicide.</li> <li>Protected or endangered species of plants shall not be removed unless they are interfering with a structure.</li> <li>Where such species have to be removed due to interference with a structure, the necessary permission and permits shall be obtained from Provincial Department of Agriculture and Rural Development.</li> <li>All protected species not to be removed must be clearly marked and such areas fenced off if required.</li> <li>The use of herbicides shall only be allowed after a proper investigation into the necessity, the type to be used, the long-term effects and the effectiveness of</li> </ul>	• When is necessary?		Number of incidents of disturbance of vegetation outside site boundary.
		used, the long-term effects and the effectiveness of the agent.  No scalping shall be allowed on any part of			
		Johannesburg Water Sites.			
Alien invasive/weeds control	3	<ul> <li>Some of the areas of JW area are covered with moderate to very dense invasive alien shrubs and trees. Clearing of such vegetation will be necessary</li> </ul>	Johannesburg During operation and maintenance activities	Visual inspection.	Daily inspections register. Incident register.

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area.

handling herbicides.

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•	to gain access. However, clearing of this vegetation from the entire project area as far as possible will reduce the re-establishment rate of this vegetation over time, and will thus not only benefit the environment put also the proposed project and potential future phases of the project in the long term. The type of invasive, however, will require regular follow-up eradication of seedlings after clearing, as		•	Monitoring against Vegetation Managem ent Plan. PCO certificate.	
•	extensive seedbanks of these species are present underneath present infestations.  Wood from alien vegetation can be used. However, care must be taken not to leave any of the leaf- or seed material on the site where the vegetation was cleared. Rather, identify a particular area that no longer has any indigenous vegetation, demarcate that area and dump excess material of alien species there.				
•	Once the material is sufficiently dry, it should be burned to destroy any regenerating capacity of stems and roots as well as seeds.  Only registered PCO with Certificate for competency to handle the hazardous substances (e.g., Herbicides) is allowed to use herbicide.  Only environmentally friendly herbicide is allowed within JW sites.				

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#### DISCLAIME

MSDS for the herbicides must be kept in the storage

Method Statement for applying and handling herbicides and Risk Assessment for applying and

Appropriate PPE for handling herbicides. Herbicides stored only in a designated storage.

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			T		T	
		<ul> <li>Empty containers of herbicides disposed of accordingly to the registered hazardous landfill site.</li> <li>Proof of disposal provided to JW Environmental Section.</li> </ul>				
Sludge Management	4	<ul> <li>The sludge must be managed according to the sludge guideline.</li> <li>All agreements or Contract must be placed in the file.</li> <li>The sludge must be kept on a designated bunded and concrete lined drying bed.</li> </ul>	Johannesburg Water/Bulk Waste	During operations activities	<ul> <li>Visual inspection according to Sludge SOP.</li> <li>Monitoring against Sludge Guideline.</li> <li>Monitoring against WUL.</li> </ul>	<ul> <li>Sludge test report</li> <li>Complaints         register.</li> <li>Sludge spill         register.</li> <li>Environmental         Officers Internal         WUL Audit Report.</li> </ul>
Workshop and storage Area	5	<ul> <li>The siting of workshops, maintenance and refuelling sites and materials storage areas shall not be in the vicinity of sensitive sites e.g., wetlands, cultivated fields or drainage lines, or where local landowners can be disturbed.</li> <li>Storm water shall be diverted around the storage area. Storm water falling on the storage area shall be discharged if it meets the required water quality standards.</li> <li>Proper storage facilities, placed on an impermeable surface, shall be provided for the storage of oils, grease, fuels, chemicals, and other hazardous materials to be used during the construction phase of the project. If fuel is required on site, it shall be stored in a secure area in a steel tank supplied and maintained by the fuel suppliers. Leakage of fuel shall be avoided.</li> </ul>	Johannesburg Water	During operations and maintenance activities	Visual inspection SOP for handling hazardous substance s. MSDS register	<ul> <li>Workshop and storage register.</li> <li>MSDS register.</li> <li>Incident register.</li> </ul>

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•	An adequate bund walls, 110% of volume, shall be
	provided for fuel and diesel areas to accommodate
	any spillage or overflow from these substances. The
	area inside the bund wall shall be lined with an
	impervious lining to prevent infiltration of the fuel into
	the soil.

- In addition, hazard signs indicating the nature of the stored materials shall be displayed on the storage facility or container and Material Safety Data Sheets (MSDS's) will be made available for all hazardous chemicals. Before containers or storage facilities are erected, emergency procedures in the event of misuse or spillage that may negatively affect an individual or the environment will be in place.
- The storage facilities (including any tanks) shall be surrounded by a bund wall, in order to ensure that accidental spillage does not pollute local soil or water resources.
- The storage areas shall not be utilised for accommodation purposes and shall be access controlled.
- The storage area shall be kept tidy, and the area shall be rehabilitated after use.
- An inventory of any hazardous chemicals/substances (including that within equipment) kept on site, along with a description of possible ill effects and treatment of health-related afflictions resulting from accidents, shall be kept in the storage area as well as by the appropriate manager. These areas shall be securely fenced.
- Gas welding cylinders and LPG cylinders shall be stored in a secure, well-ventilated area.

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		<ul> <li>A notice board with the contact details of the responsible party shall be displayed at the gate to the storage area.</li> <li>All vehicles and machinery will be inspected for any leaks or malfunctions regularly. Vehicle servicing or repairs is prohibited from site, unless in an emergency.</li> <li>Drip trays shall be inspected and emptied daily and serviced when necessary. In particular drip trays shall be closely monitored during rain events to ensure that they do not overflow. The contents must be disposed of at a recognised site.</li> <li>All repairs done on machinery using hydrocarbons as fuels or lubricants shall have a drip tray placed strategically to avoid incidental spillage.</li> <li>Workers shall be made aware of the health risks associated with any hazardous substances used (e.g., smoking near refuelling depots), and shall be provided with appropriate protective clothing equipment in case of spillages or accidents.</li> <li>Cement shall be mixed on a plank, mental plate or a plank only or ready-mix trucks shall be used, and other potential environmental pollutants shall be stored at the designated area. There shall be no opportunity for environmental contamination.</li> <li>Workshop areas shall be monitored for oil and fuel spills and such spills shall be cleaned and remediate to the satisfaction of the EO.</li> <li>The site shall be in possession of an emergency spill kit that must be complete and available at all times</li> </ul>				
Complaints	6	<ul><li>on site.</li><li>Maintain complaints register for all complaints. The</li></ul>	Johannesburg	During operations and	Complaint	Availability of
I		register must list:	Water	maintenance activities	s register.	register on site

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		<ul> <li>Complainant name and contact details.</li> <li>Date complaint was lodged.</li> <li>Person who recorded the complaint.</li> <li>Nature of the complaint.</li> <li>Actions taken to investigate the complaint and outcome of the investigation.</li> <li>Action taken to remedy the situation.</li> <li>Date on which feedback was provided to complainant.</li> </ul>			•	GDARD complaints reference number.	•	Designated person to maintain register Complaints logged Complaints followed up and closed out.
Collection of water sample	7	<ul> <li>Water sampling shall be undertaken at the selected sampling points as per the WUL.</li> <li>Any incident or non-compliance with the WUL parameters or DWS Water Quality Guidelines shall be reported accordingly and investigated</li> <li>Unused sampling bottle shall be disposed of accordingly.</li> </ul>	Johannesburg Water/CDYNA	During operation activities	•	Visual inspection. Online Lab reports	•	Daily water sample report. Incident register.
Environmental Incident reporting and Emergency Response and Preparedness	8	NEMA Section 30 and 30A emergency incidents and situations must be reported to GDARD or DEA immediately after as an incident or situation occurs. NWA Section 20 emergency must be reported to DWS, mostly by Operations Department. This can be done via phone, fax, or email. JW must implement measures to contain the incident or situation immediately. Thereafter the Emergency Incident Report (EIR) or Emergency Situation Report (ESR) must be submitted to the authorities ASAP. The reports must provide as much information as possible, if not; the reports can be updated later as the investigation progresses. Not reporting an incident could result in the authorities issuing a directive or a compliance notice to the responsible person.	Johannesburg Water Sites	During operation and maintenance activities.	•	Visual inspection. Flash report/ Incident investigati on report. Section 30A Annexure A. JW Environme ntal Emergenc y Preparedn	•	Incident register Bioremediation report. Section 30A Directive. Corrective Action Plan

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Important Note: For Section 30A Emergency Situation, an oral or written directive must be obtained from GDARD or DEA before works can be undertaken in the watercourse to avoid undertaking listed activities without obtaining EA.	ess and Response Procedure.
Johannesburg Water takes responsibility in order to effectively respond to emergency incidences such as fire, hydrocarbon and sewer spills or leakages, disturbance of wildlife and archaeological artefacts. The SHE Rep must conduct daily inspections to ensure that the required equipment needed to handle environmental incidents/ emergencies are readily available and in working condition. Quick response to an incident prevents escalation to an emergency:	

#### 9. Water Management

- Water is a scarce resource and water shall be conserved wherever possible.
- Improved and protected watercourses to Class C classification which is moderately modified in terms of determined class of water resource and resource quality objectives of chapter 3 (Part 2) of National Water Act (Act 36 of 1998).
- Demand reduction/ Alternative sources.
- Building a water sensitive city.
- Well managed and maintained water infrastructure networks.

Water Usage	9.1	<ul> <li>The site must be kept tidy and hygienic at all times with special reference to sanitation &amp; water management.</li> <li>Maintain a monthly water usage.</li> <li>Reporting of water pipe burst and damaged meters</li> </ul>	Johannesburg Water Sites	During operation	<ul><li>Visual inspection</li><li>Meter readings</li></ul>	Records of Monthly water Usage.
Reduce water demand	9.2	<ul> <li>Implement effective demand-side management practices while exploring investment into smart infrastructure and alternative supplies to increase levels of net water savings.</li> </ul>	Johannesburg Water (Network)	During operation	<ul><li>Monthly Monitoring</li><li>Monthly water</li></ul>	<ul> <li>Records of percentage reduction on non-revenue water.</li> <li>Records of Percentage</li> </ul>

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		<ul> <li>Establish Task Team with different law enforcement agencies to develop and implement solution for infrastructure abuse problem.</li> <li>Promote the implementation of Sustainable Urban Drainage System practice.</li> </ul>			managem ent report	reduction of Rand Water system input volume.
Incentivise water saving interventions across domestic and economic sector users.	9.3	<ul> <li>Implementation of command-and-control base mechanism that promote water saving (CoJ Bylaws).</li> <li>Implementation of incentives base mechanism</li> <li>Develop partnerships beyond the City to encourage water savings.</li> <li>Expand current CoJ drought policy to build greater resilience of the water system.</li> <li>Integrate water conservation requirements in conditions of planning approval.</li> <li>Develop an awareness and communications campaign using available technology.</li> </ul>	Johannesburg Water	CoJ/Operations	Monthly water managem ent report	<ul> <li>Records of reduction in annual water consumption per capita</li> <li>Water from alternative sources as % of total water supply</li> </ul>
Rehabilitation/ Reinstatement	10	<ul> <li>Clean up and remove any spills and contaminated soil in the appropriate manner.</li> <li>Ensure that no discarded materials are buried on site or on any other land not designated for this purpose.</li> <li>Rehabilitate any disturbed areas as soon as maintenance or construction in the area is complete.</li> <li>If disturbed areas are left to rehabilitate naturally, they must be frequently monitored and interventions put in place immediately should it become necessary. Special attention must be given to the potential for soil erosion and the associated environmental degradation. It is also essential to undertake alien vegetation control and management.</li> </ul>	Johannesburg Water	During operation and maintenance activities	<ul> <li>EO complianc e monitoring .</li> <li>Visual inspection.</li> <li>Complianc e inspection against rehabilitati on plan.</li> </ul>	<ul> <li>Inspection report.</li> <li>Audit report by External Auditor.</li> <li>Photos before and after.</li> </ul>

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			1) A / E A / E	
			<ul> <li>JW EMP.</li> </ul>	

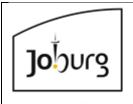
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3. This EMP does not exempt the Contractor from complying with other relevant legislations related to the construction activities.

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#### 6.1 Method Statement

The objective is to ensure all construction activities are undertaken with the appropriate level of environmental awareness to minimise environmental risk. The environmental specifications are required to be underpinned by a series of Method statements, within which the Contractors and Service Providers are required to outline how any identified environmental risks will practically be mitigated and managed for the duration of the contract, and how specifications within this EMPr will be met. That is, the Contractor will be required to describe how specified requirements will be achieved through the submission of written Method Statements to Johannesburg Water Environmental Section and ECO.

Method Statement is defined as "a written submission by the Contractor in response to the environmental specification or a request by the Site Manager, setting out the plan, materials, labour and method the Contractor proposes using to conduct an activity, in such detail that the Site Manager and Environmental Officers are able to assess whether the Contractor's proposal is in accordance with the Specifications and/or will produce results in accordance with the Specifications". The Method Statement must cover applicable details with regard to:

- Construction procedures
- Materials and equipment to be used
- Getting the equipment to and from site
- How the equipment/material will be moved while on-site
- How and where material will be stored
- The containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur
- Timing and location of activities
- Compliance/non-compliance with the Specifications, and
- Any other information deemed necessary by the Johannesburg Water.

The Contractor may not commence the activity covered by the Method Statement until it has been approved by the Site Manager, except in the case of emergency activities and then only with the consent of the Site Manager. Approval of the Method Statement will not absolve the Contractor from their obligations or responsibilities in terms of their contract.

Failure to submit a method statement may result in suspension of the activity concerned until such time as a method statement has been submitted and approved. The EO and ECO should monitor the construction activities to ensure that these are undertaken in accordance with the approved Method Statement.

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### **6.2 Monitoring**

- Regular inspections of the site by EO/SHE and Environmental Reps
- Immediate reporting of ineffective sediment control systems.
- Public complaints register must be developed and maintained on site.

### **6.2.1 Monitoring Program**

**OBJECTIVE:** Monitor the performance of the control strategies employed against environmental objectives and standards

A monitoring programme must be in place not only to ensure conformance with the EMP, but also to monitor any environmental issues and impacts which have not been accounted for in the EMPr that are or could result in significant environmental impacts for which corrective action is required. The period and frequency of monitoring will be stipulated by the environmental authorisation (once issued). Where this is not clearly dictated, Johannesburg Water will determine and stipulate the frequency of monitoring required in consultation with the relevant authority. The contractor project manager will work with the site manager of the contractor to ensure that monitoring is conducted and reported.

The aim of the monitoring and auditing process would be to routinely monitor the implementation of the specified environmental specifications, in order to:

- Monitor and audit compliance with the prescriptive and procedural terms of the environmental specifications.
- Ensure adequate and appropriate interventions to address non-compliance.
- Ensure adequate and appropriate interventions to address environmental degradation.
- Provide a mechanism for the lodging and resolution of public complaints.
- Ensure appropriate and adequate record keeping related to environmental compliance.
- Determine the effectiveness of the environmental specifications and recommend the requisite changes and updates based on audit outcomes, to enhance the efficacy of environmental management on site.
- Aid communication and feedback to authorities and stakeholders.

### 6.2.2 Method of Monitoring

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The Environmental Officer will ensure compliance with the EMP and will conduct monitoring activities. The EO will undertake site inspections monthly or as specified in the environmental authorisation once issued.

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### 6.2.3 Monitoring Reports

Environmental Monthly reports will be compiled by the EO monthly and must be submitted to Environmental Specialist. The report should include details of the activities undertaken in the reporting period, any non-conformances or incidences recorded, corrective action required and details of these non-conformances or incidents which have been closed out.

A document handling system must be established to ensure accurate updating of EMP documents, and availability of all documents required for the effective functioning of the EMP. The complied environmental file must be ISO14001:2015 conformant as per JW environmental file specification (Annexure B). Supplementary EMP documentation could include:

- Method Statements.
- Environmental Action Plan
- Environmental File Site instructions.
- Emergency preparedness and response procedures.
- Record of environmental incidents.
- Non-conformance register
- Training records.
- Site inspection reports.
- Waste Register
- Water Usage Register
- Fauna and Flora Register
- Hazardous chemical Inventory list
- Monitoring reports.
- Auditing reports; and
- Public complaints register (single register for maintained for overall site).

## Table 4: Monitoring Programme

ISSUE	FREQUENCIES OF MONITORING	RESPONSIBLE PERSON
WATER		
Prevention of water pollution	Weekly in rainy season	Contractor's Representative
Prevention of stagnant water on site.	Weekly in rainy season	(CR)/ Johannesburg Water
Proper functioning of sanitation	Weekly	
facilities		

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ISSUE	FREQUENCIES OF	RESPONSIBLE PERSON
	MONITORING	
SOIL		
Surface or gully erosion on site	Weekly in rainy season	CR/JW
Soil contamination with oils	Monthly	CR/JW
If small, clean up. If large, appoint a	Immediately	CR/JW
suitable contractor for clean-up.		
Air		
Control domestic fires.	Weekly	CR/ JW
Heavy vehicle emission control.	Monthly	CR/JW
Dust control of access roads. Wetting	Weekly inspection	CR
when required.		
WASTE		
Efficiency of domestic waste collection.	Weekly	CR/JW
Prevention of burning of solid/liquid		
wastes on site.	Weekly	CR/JW
Proper collection and containment of		
liquid wastes (petroleum, oils, paints,	Monthly	CR/JW
resins & cooking oils)		
The recycling and/or disposal thereof.		
The collection and disposal of	Biweekly	CR
construction waste (concrete, wood,		
steel)	Monthly Biweekly	CR/JW
Collection of hazardous waste.		CR/JW
WILDLIFE		
Weed Control	On-going	CR/JW
Control of illegal hunting or snaring of	On-going	CR/JW
game, birds, or other wild animals.		
SOCIAL		
Inspect overall appearance of site.	Weekly	CR

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ISSUE	FREQUENCIES OF MONITORING	RESPONSIBLE PERSON
(Paint work, cleanliness &		
housekeeping)	Daily	CR/JW
Resolve complaints	Daily	CR/JW
Monitor behaviour of labourers		
SAFETY		
Inspect road signs, pedestrian, and vehicle behaviour	At least once a week	CR/JW

### 6.3 Internal Audits and Reporting

Typically, an audit analyses the results obtained from monitoring, assesses whether objectives and targets have been met and whether there are variances from the stipulated EMP and legal requirements. In addition, the audit assesses whether EMP implementation has been undertaken according to planned arrangements and that the EMP itself is being appropriately updated. The audit should confirm that identified corrective actions have been undertaken and then assess the effectiveness of such actions. The timing of audits should be included in the implementation schedule in the EMP.

The key steps in a successful audit are:

- Establish audit procedures.
- Determine the frequency of audits.
- Ensure that the auditors are competent, in that they must be able to undertake the audit objectively and competently. Audits may be undertaken by internal or external parties, although certain I&AP requirements may define a need for external auditors.
- Maintain records of audits.

A procedure is to be developed by the project management team for conducting EMP audits, and should incorporate processes for scheduling and reporting, as well as the timing and frequency of the audits. This procedure should also address responsibilities and required resources. The EO is usually responsible for the maintenance of the environmental audit information that is required prior, during and

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after an audit. Internal audits must be undertaken by Johannesburg Water Environmental Section on monthly basis.

### 6.3.1 Monthly compliance rating

A monthly compliance rating will be calculated for each Principal Contractor as per a formula determined by Johannesburg Water SOC Ltd focussing on or incorporating outcomes of assurance (e.g., monthly audit), operational assessments and other requirements, as necessary. Johannesburg Water SOC Ltd reserves the right to adjust the monthly compliance calculation formula as and when required – each revision of the monthly compliance calculation formula will be communicated to the Principal Contractor before implementation (Each Principal Contractor is required to maintain a minimum compliance rating of 93% (Ninety-Three Percent).

**Table 5: Compliance Rating Protocol** 

Classification	Scoring	Classification description	
Good	93 – 100%	Substantial compliance	
Average	80-92%	Compliance status needs to be improved	
Poor	61-79%	Methods to ensure compliance require substantial improvement	
Very poor	<60%	Methods to ensure compliance failed completely - no system in place	

### 6.3.2 Work Stoppage

Work stoppages will be identified for 2 (two) types of work stoppages to be implemented:

- Overall work stoppage the Principal Contractor and its Contractors are not allowed to continue with any type of construction / site work up until the work stoppage has been closed-out.
- Activity work stoppage The Principal Contractor and its Contractors are not allowed to continue
  with the specific activity / task / job up until the work stoppage has been closed-out (Overall work
  stoppages will be issued where non-conformances are identified against the criteria in
  Annexure C).

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#### 6.4 Environmental Awareness Plan

**OBJECTIVE**: Ensure all operation personnel have the appropriate level of environmental awareness and competence to ensure continued environmental due diligence and on-going minimisation of environmental harm (Environmental Awareness Plan).

To achieve effective environmental management, it is important that Contractors and site employees are aware of the responsibilities in terms of the relevant environmental legislation and the contents of this EMP. Johannesburg Water is responsible for informing its employees and contractors (transportation contractor) of their environmental obligations in terms of the environmental specifications, and for ensuring that employees are adequately experienced and properly trained in order to execute the works in a manner that will minimise environmental impacts. Johannesburg Water's obligations in this regard include the following:

- Employees must have a basic understanding of the key environmental features of the depot and its surrounding environment.
- Ensuring that a copy of the EMP is readily available on-site and that all site staff is aware of the location and has access to the document.
- Employees must be familiar with the requirements of the EMP and the environmental specifications as they apply to the operation of the facility.
- Ensuring that, prior to commencing any new site works, all employees have attended an Environmental Awareness Training course. The course must provide the site staff with an appreciation of the project's environmental requirements, and how they are to be implemented.
- Awareness of any other environmental matters, which are deemed to be necessary by the depot manager.
- Ensure that construction workers have received basic training in environmental management, including the storage and handling of hazardous substances, minimise of disturbance to sensitive areas (wetland), management of waste and prevention of water pollution
- Records must be kept of those that have completed the relevant training.
- Training should be done either in a written or verbal format but must be in an appropriate format and language for the receiving audience

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 Refresher sessions must be held to ensure the operating staffs are aware of their environmental obligations.

Therefore, prior to the commencement of construction activities on site and before any person commences with work on site thereafter, adequate environmental awareness and responsibility are to be appropriately presented to all staff present onsite, clearly describing their obligations towards environmental controls and methodologies in terms of this EMPr. This training and awareness will be achieved in the following ways:

## 6.4.1 Environmental Awareness and Training

Environmental Awareness and Training must be undertaken by the Environmental Officer or SHE/ELO and must take the form of an on-site talk and demonstration by the Environmental Officer before the commencement of construction activities on site. A record of attendance of this training must be maintained by the Environmental Liaison Officer/SHE Officer on site.

### **6.4.2 Formal Environmental Training**

**NB**: JW must ensure that there is a budget allocated for environmental formal training in CAPEX projects for the skills development of contractor staff, development of community where project is being undertaken. The principal Contractor shall identify short courses and include them on the training matrix that can be done on site during project duration. The following are some of the trainings that can be done on site:

- ISO14001:2015 Environmental Management System Awareness
- Handling of beehives
- Snake awareness and handling
- Environmental legal Liability.
- Waste Management
- Environmental Site Representative
- Recycling
- Grass cutting training

The principal Contractor must ensure that they are appointing a registered company that meet all the requirements and before appointment of service provider, the files shall be submitted to Environmental Section for evaluation.

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### 6.4.3 Induction Training

Environmental induction training must be presented to all persons who are to work on the site, be it for short or long durations. Contractors or Engineers staff, site staff, sub-contractors, or visitors to site. This induction training should include discussing Johannesburg Water's environmental policy and values, the function of the EMP and the importance and reasons for compliance to these. The induction training must highlight overall dos and don'ts on site and clarify the repercussions of not complying with these. The reporting procedure must be explained during the induction as well. Opportunity for questions and clarifications must form part of this training. A record of attendance of this training must be maintained by the SHE officer on site.

#### 6.4.4 Toolbox Talks

Toolbox talks should be held on a scheduled and regular basis (at least once a month) where the foreman/site supervision manager, environmental and safety representative and all employees on site hold talks relating to environmental practices and safety awareness on site. These talks should also include discussions on possible common incidents occurring on site and the prevention of reoccurrence thereof. Records of attendance and the awareness talk subject must be kept on file.

### 6.5 Erosion Management Plan

The objective to control soil erosion from an ecological perspective is:

- To reduce the effects of raindrop splash erosion on exposed soil surfaces.
- To keep rainwater on the soil surface for as long as possible to increase the infiltration rate and reduce surface runoff.
- To reduce the speed of surface runoff to reduce the erosion effect of the soil surface.
- To provide methods to retain soil, debris, seed banks and organic matter being carried away by runoff.
- To improve water retention of the area (Coetzee, 2005).

#### a) Areas with a high soil erosion potential on the site

Areas identified as being of high soil erosion potential on the site include:

Any areas without vegetation cover

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- Excavated areas
- Steep areas
- Areas which undergo overland flow of water.
- Areas close to water
- Irrigated areas
- Compacted areas
- Rivers
- Drainage lines
- Any areas where developments cause water flow to accelerate on a soil surface.

If any erosion features are present as a result of the activities mentioned above the ELO must: Assess the situation.

- Take photographs of the soil degradation.
- Determine the cause of the soil erosion.
- Inform and show the relevant contractors the soil degradation.
- Inform the contractor that rehabilitation must take place and that the contractor is to implement a rehabilitation method statement and management plan.
- Monitor that the contractor is taking action to stop the erosion and assist them where needed.
- The progress of the rehabilitation must be monitored weekly and recorded in the site diary.
- All actions with regards to the incidents must be reported on in the monthly Audit report.
- If the erosion incident has not been addressed by the contractor within 14 days of you reporting it, the Johannesburg Water 's Environmental Section must be informed.

The contractor/ developer (with the EO's consultation) must:

- Select a system to treat the erosion
- Design the treatment system
- Implement the system
- Monitor the area to see if the system functions like it should, if it the system fails adapt or adjust the system to ensure erosion is controlled.

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Monitoring must continue until the area has been stabilized

## b) General Erosion

The civil works contractor may use the following instruments to combat erosion when necessary:

- Reno matrices
- Slope attenuation
- Shade catches nets
- Mulching
- Hydro-seeding or transplanting
- Re-vegetating
- Tilling (roughing the surface)

### c) Erosion Management control measures

- Areas susceptible to erosion must be protected by appropriate measures and repair of any damage caused by erosion due to construction activities must be undertaken as soon as possible.
- Minimise erosion and sedimentation into water courses through effective stabilisation (gabions and reno-mattresses) and re-vegetation of disturbed riverbanks (Refer to rehabilitation specifications and erosion control measures below).
- Stabilisation of sandy, dispersive slopes or slopes steeper than 1:3 will be required. Ensure that bare soil is covered, and hydro seeded to reduce topsoil loss.
- Ensure that all soil surfaces are protected by vegetation or a covering to avoid the surface being eroded by wind or water.
- Ensure that heavy machinery don't compact areas that are not meant to be compacted as this
  will result in compacted hydrophobic, water repellent soils which increase the erosion potential
  of the area.

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#### d) Surface water control measures

- Prevent the concentration or flow of surface water or storm water down cut or fill slopes or along pipeline routes or roads and ensure measures to prevent erosion are in place prior to construction.
- Storm water and any runoff generated by hard surfaces should be discharged into retention swales or areas with rock riprap.
- These areas should be grassed with indigenous vegetation.
- These energy dissipation structures should be placed in a manner that flows are managed prior
  to being discharged back into the natural water courses, thus not only preventing erosion, but
  also supporting the maintenance of natural base flows within these systems, i.e., hydrological
  regime (water quantity and quality) is maintained.
- Mitigate against siltation and sedimentation using the above-mentioned structures and ensure that all structures do not cause erosion.
- Ensure that all storm water control features have soft engineered areas that attenuate flows, allowing for water to percolate into the local aquifers.
- Minimise and restrict site clearing to areas required for construction purposes only and restrict disturbance to adjacent undisturbed natural vegetation.
- Vegetation clearing should occur in parallel with the construction progress to minimize erosion and/or run-off. Large tracts of bare soil will either cause dust pollution or quickly erode and then cause sedimentation in the lower portions of the catchment.
- Minimise the diversion of flows into different catchments.
- If implementing dust control measures, prevent over-wetting, saturation and run-off that may cause erosion and sedimentation.
- Water course (stream) crossings should not trap any run-off, thereby creating inundated areas, but allow for free-flowing water courses.

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### e) Environmental Incident/Accident

All environmental related incidents should be reported to environmental section. The ELO should compile and keep an Incidents and Accidents Register on the file/book in which all environmental related incidents and accidents are recorded, e.g., chemical spills, fires, accidents involving workers and vehicles, etc.

The following information must be recorded in the Incidents Register:

- The name and contact details of the persons involved
- The person recording the incident
- The date and time of incident
- The nature, extent, and cause of the accident
- The name and contact details of any persons notified of the incident
- The actions taken to deal with the incident and whether the accident has been sufficiently
- Dealt with additional steps required to prevent recurrence of the incident.

## 7. RECORD KEEPING, COMPLIANCE AND PENALTIES

Various records will be kept on site for monitoring purposes these include but not limited to:

- Copy of Environmental Management Plan
- Approved Environmental Method Statements
- Environmental Authorisation
- Environmental induction attendance register
- Hazardous chemicals register
- Waste disposals register and disposal certificates
- Oil/fuel spill register

Records of non-compliance shall also be kept on record and will include the nature and magnitude of the non-compliance in a register, the action taken to discontinue the non-compliance, the action taken to mitigate its effects and the results of the actions. External complaints received regarding activities on the construction site pertaining to the environment shall be recorded in public complaints register and

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DISCLAIMED	

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the response noted with the date and action taken. This record shall be submitted with the monthly reports and a verbal report given at the monthly site meetings. A score of 90% is required for the Monthly Audit undertaken by the Johannesburg Water 's Environmental Officers.

### 8. DECOMMISSIONING

### Objective

 To avoid and or minimise the potential environmental and social impacts associated with the decommissioning phase

### **Mitigation Measures**

Mitigation measures as detailed in the construction phase on the EMP regarding impacts on flora, fauna, habitats, and wetlands would be applicable to this phase.

- Rehabilitation to be undertaken in terms of specifications outlined in the Rehabilitation section of this EMP as well as in terms of any specific requirements applicable at the time.
- Johannesburg Water EO will need to supervise and monitor all decommissioning activities as per the snag list.
- All disturbed areas should be rehabilitated closer to its original state and more.

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Retainable Annexure A (Ref: Annexure 5 of JW 6.4): Acknowledgement of EMP specification by the Contractor.

Environmental	Requirement	for	Contractors	and	Suppliers	Unique no	JWEMP:122017
working for Joh	annesburg Cap	ital E	Expenditure (C	APEX	) projects	Revision no	00

I, the undersigned, hereby acknowledge that I have obtained copies of the following listed documentation and confirm that I fully understand the contents thereof and the consequences of non-compliance. The Contractor furthermore reiterates its commitment to compliance of the requirements contained within the following provided documentation:

Name of the Contractor	
Vendor Number	
Project Number	
Scope of Work	
Declaration by Capital Expenditu	re Projects Contractor

daration by Capital Expenditure Projects Contractor

- I undertake to adhere to the requirements as set out in:
  - Johannesburg Water Environmental Management Plan and Waste Management Plan
  - Environmental requirements for Contractors working on Capital Expenditure Projects
- I undertake to comply with all applicable environmental legal and other requirements.
- Undertake to comply with Johannesburg Water 's environmental standards, policies, and procedures where applicable.
- I pledge to inform all staff of their role in managing environmental impacts on site.
- I am fully aware that incidents must be reported within 24 hours of occurrence.
- I pledge to always implement environmental best practice on site during the contract.
- I pledge that all non-conformances issued to us will be addressed promptly.

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I				
provided documentations and conform to	·	contained within the following		
Signed at				
Contractor Reperesentative Name:	Signature:	Date:		
Designation:				
JW Project Engineer/Manger (Witness)	Signature:	Date:		
Name:				

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#### Annexure B: Contractors Environmental File Evaluation Form

<b>Jo</b> burg	Johannesburg Water

#### CONTRACTORS ENVIRONMENTAL FILE EVALUATION FORM

A minimum score of 80% is required on all sections for the approval of the submitted Environmental file System. Failure to achieve the required score will result in non-approval of the Environmental file, and the project will not commence prior file approval.

**ENVIRONMENTAL SYSTEM EVALUATION OUTCOME** 

AVERAGE SCORE OB	TAINED			0.00%
			APPROVED/REJECTED	
EVALUATED BY:		REVIEWED BY:	APPROVED/REJECTED BY:	ACKNOWLEDGED BY:
DESIGNATION:		DESIGNATION:	DESIGNATION:	DESIGNATION:
SIGNATURE:		SIGNATURE:	SIGNATURE:	SIGNATURE:
DATE:		DATE:	DATE:	DATE:
PROJECT DETAILS				
Contract Number				
Project Title				
Name of Contractor				
Is the project screened?	YES/NO	IF NO	Construction activities/work (including site established when after the project is Screened	olishment) should ONLY commence

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Specialist Studies/	Report		
Environmental Aut	horisation (If applicable)		
Water Use Licence /General Authorisation (If applicable)			
SCORE ANALYSI	IS		
	Satisfactory (Approved)	Requirements have been met	
0.00%	Unsatisfactory (Not Approved)	Requires substantial improvement / partially achieve	ed
ENVIRONMENTA	L REQUIRED DOCUMENTS		
1	Copy EMP and signed acknowledgement letter for JW EM	0	
2	SHE/ELO appointment letter	0	
3	Contractor Environmental Induction presentation	0	
3	Environmental Toolbox talk and copy of attendance registe	0	
5	Environmental Objective (Site specific) 0		0
6	Environmental Policy Statement 0		0
7	Registers		0
3	Legal Register (Site specific)	0	
9	Environmental Aspect and Impact register (site specific)		0
10	Permit register		0
11	Non-Conformance Register	0	
12	Waste register template 0		
13	Complaint register 0		
14	Incident register 0		

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TOTAL		0
31	Rehabilitation Plan or Method Statement for Rehabilitation/Reinstatement	0
30	Contractor Audit procedure/template	0
29	Dust Management Plan or Method Statement for dust suppression	0
28	Training Matrix	0
3	Emergency Response Plan	0
26	Incident report template (Flash report/Investigation report)	0
25	Waste management plan/ Method statement for waste management	0
24	Method statement for the activities to be undertake/ (include environmental aspects on the technical MS)	0
23	Hazardous Management Plan/ Procedure (i.e., handling of hazardous substances)	0
22	Alien invasive and weeds control plan	0
21	Storm water management plan/ Erosion control	0
20	Document control procedure	0
19	Method statements or procedures	0
18	Spill kit checklist	0
17	Daily Environmental checklist/ weekly checklist and spill kit checklist	0
16	Hazardous substances register	0
15	Method statement register	0

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#### **Annexure C: Environmental Work instruction**

### **ENVIRONMENTAL MANAGEMENT (EM) SITE INSTRUCTION**

Document No: JW- EMS-HO-R014





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- 1. All JW rules and regulation including JW Environmental Management Plan and other applicable legislation, standard and by-laws must be adhered to at all times.
- 2. Copies of Environmental Authorisation, Water Use License/General Authorization, Rehabilitation plan, EMP shall be kept on site (where applicable).
- 3. All JW sites must have waste bins, drip trays, spill kit and designated hazardous storage (where applicable).
- 4. Only registered Waste Service providers who comply with National Environmental Management Waste Act and Municipal By-laws shall be appointed.
- 5. No burning or burying of waste is allowed on site.
- 6. The conservation of water and the use of energy efficiently shall be implemented in all JW sites.
- 7. The letter from City Parks for occupying the open space shall be received and kept in the file and if the land belongs to the private owner, the copy of an agreement letter shall be kept in the file (where applicable).
- 8. The photos are taken before and during and after the project (where applicable).
- 9. The Environmental file must be approved before the commencement of works on site (where applicable).
- 10. The Environmental file will be kept on site all the times and shall be made available to competent authority and JW environmental representative (where applicable).
- 11. Rehabilitation/ reinstatement of the site must be done as per the JW EMP, rehabilitation method statement.
- 12. The hazardous waste must only be stored not more than 90 days on site as per the legislation.
- 13. Only asbestos registered service providers shall be appointed to handle and dispose asbestos to registered landfill site.
- 14. No mixing of general and hazardous waste will be allowed.
- 15. No cutting of trees is allowed on site without permit.
- 16. If archaeological artefacts or anything of heritage importance are found at JW sites/ servitude Environmental Section must be informed.
- 17. Everyone working within JW sites shall familiarize with the EMP requirements and other applicable JW environmental procedures.
- 18. All the environmental incidents shall be reported within 24 hours to JW environmental Section.

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- 19. Ensure that all JW employees and its service providers or suppliers receive environmental induction.
- 20. All work must be carried out under close supervision by the competent persons.
- 21. Repetitive findings or non-compliances shall be avoided.
- 22. Topsoil stockpile shall be protected by erosions control berms if it is exposed to a period of 14 days during wet season (where applicable).
- 23. Only 150mm of topsoil shall be removed and stockpile at a height of not more than 1m.
- 24. All hazardous material must be stored on a bunded and ventilated storage, and MSDS must be available for all of them.
- 25. No painting or marking of natural features is allowed on site.
- 26. Pollution of the environment shall be prevented all the times.
- 27. No leaking mobile plant is allowed on site.
- 28. Dust control measures shall be implemented on site (where applicable).
- 29. No sewer spillage shall spill into the storm water or the watercourse.
- 30. All environmental related incidents and/or emergencies shall be investigated within 48 hours from the date of notice.
- 31. Killing of fauna and/or Avifauna is prohibited.
- 32. Alien invasive and weeds must be eradicated.
- 33. Fumigation shall be done by trained personnel that is registered with DAFF.
- 34. No smoking is allowed in restricted areas. All such areas are posted appropriately.
- 35. Personal protective equipment is required to be worn at all times in production areas.
- 36. Maintain good housekeeping in your work area.
- 37. Keep fire lanes, roadways, walkways, and aisles free and clear of material.
- 38. The use of unsafe or defective equipment or tools is not permitted.
- 39. A contractor or subcontractor shall leave no unused materials on site. At the completion of a project the contractor shall remove all unused material and all waste shall be properly disposed of at a registered landfill site.
- 40. Any contractor or subcontractor found to be in violation of any EH&S rules can be ejected or escorted off premises if deemed necessary.
- 41. This file shall be kept on site and will be available at all times to the JW Reps and authorities (upon request).

## ACKNOWLEDGEMENT BY MANAGER/CONTRACTOR I, \_\_\_\_\_\_\_ the Manager/Contractor, do hereby declare that my site/company

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			a a la suda su usa al a su d		anditions contained in this de-
furthermore, the employees agr	ee to abide by			understood the c	onditions contained in this doc
CONTRACTOR/FACILITY	REP.	SIGNATUR	E		DATE
ENVIRONMENTAL SIT	E INSTRUCT	ION	Document No: JW- EMS-HO— R014	Joburg	Johannesburg Water
Name of Contractor/Facility				a world class African	city
Responsible Manager/ Engineer					
Project No. (where applicable):		Date Issued:		Date of Inspection	on:
Environmental Representative:			Designation:		
Should the responsible persons fail to comply with any term of this instruction, JW may demand compliance in writing from the defaulting party. Should the defaulting party fail to comply within the stipulated time frames, JW shall take the necessary steps to remedy the situation.				DJECT DESCRIP	TION
Reference No. of Non-Conform	nances			Action Required	l
EM-1.					

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DISCLATIVIER

EM-2.

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EM-3.				
EM-4.				
EM-5.				
EM-6.				
EM-7.				
EM-8.				
EM-9.				
EM-10.				
Received & Acknowledged by	Signatu	re	Date	
Responsible Manager/Contractor				
Responsible Consultant (where applicable)				
JW Environmental Representative				
JW Project Inspector / Engineer <i>(where</i>				
Contractor SHE/EL Officer (where applicable)				
COMMENTS BY RESPONSIBLE MANAGER/ENGINEER:		Target date for corrections		
			Accepted/Acknowledged by Manager/Contractor	

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COMMENTS BY CONTRACTOR (WHERE APPLICABLE):	Follow up comments by JW Environmental Representative	

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## Annexure D: Johannesburg Water General Surface Rehabilitation Specification

#### Johannesburg Water General Surface Rehabilitation Specification

Doc No: JW-EMS-CAPEX-

T040

Effective Date:14/9/2021

			Α	В	С	D	E=A*B*C*D
No.	Description	Unit	Quantity	Master	Multiplication	Weighting	Amount
				Rate	factor	factor 1	(Rands)
1	Rehabilitation Plan	m2	0	10.05	1	1	0
2	Rehabilitation of disturbed area/s including roads (prepare the ground/level profiling,soil surfaces including	m2	0	22.05	1	1	0
2	Replacement/import of topsoil (if required)	m2	0	22.05	1	1	0
3	Planting of grass/hydroseeding (Including hydro seeding seed mix ratio).	m2	0	22.05	1	1	0
4	Maintainance for 3 month (weed removal, replanting, soil conditioner, erosion repairs ect.)	m2	0	17.4	1	1	0
5	Rehabilitation close-out report	m2	0	10.05	1	1	0
6	Bioremediation (process to be determined if required)	m2	0	22.05	1	1	0
					Sub Total 1		0

1	Preliminary and General	0	weighting factor 2	0
			1	
2	Contingencies	0		0
		_	Subtotal 2	0.00

VAT (15%)	0.00
	_
Grand Total	0

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