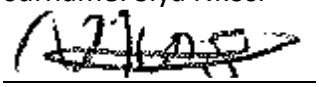
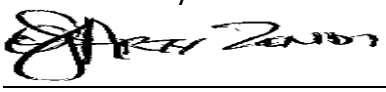
ETHEKWINI MUNICIPALITY
Occupational Health & Safety Directorate

BASELINE RISK ASSESSMENT

Document Title	Baseline Risk Assessment
Client	EThekwini Municipality – Human settlements Directorate
Project	Construction of 100 top-structure units at Richmond Farm Housing Project (ward 38 and 41)
Contract Number	36519 – 1H
Internal reference	BRA03/08/2026
Compiled by (Safety officer)	Name and surname: Siya Nkosi Signature:  Date: 28/08/2026
Reviewed by (Manager: Safety& Risk)	Name and surname: Arty Zondi Signature:  Date: 28/08/2026

BASELINE RISK ASSESSMENT

1. INTRODUCTION: In accordance with the Occupational Health and Safety Act, (Act 85 of 1993) the Legislator places specific requirements on an Employer. One of these is prescribed in Section 8(i) of the Act where it requires the Employer to ascertain the risks and dangers which may occur within the workplace or section of the workplace and then goes on to establish working procedures or practices.

2. PURPOSE: This is conducted to create a benchmark of the potential risks that apply to the whole project or business operation.

3. SCOPE: This assessment could be approached on a site, regional or national level concerning any facet of the business operation or process or activity.

4. REVIEW AND MONITORING PLAN

The risk assessment form part of the health and safety plan to be applied on the site and must include the following:

(a) The identification of the risk and hazards to which persons may be exposed.
(b) An analysis and evaluation of the risk and hazards identified based on a documented method,
(c) A documented plan and applicable safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
(d) A monitoring plan; and
(e) A review plan

5. REFERENCES

(a) Tender document number 36519 – 1H

(b) Occupational Health & Safety Act and its Regulation

6. LOCALITY PLAN

Nil

SCOPE OF WORK

Demolitions

Construction of transit camps

Public safety

Blockwork

Site establishment

Site clearing

Roof work

Excavation work

Use of hand-tools and electrical tools

Construction vehicle and mobile plants

Site security

Working in a fall risk position

1. RISK ESTIMATION AND EVALUATION

RISK CLASSIFICATION USING A RISK SCORE TECHNIQUE

Exposure (E) How frequently does the hazardous event occur	**Risk level**
Continuously	10
Frequently (daily)	6
Occasionally (weekly)	3
Unusually (monthly)	2
Rarely (few a year)	1

Probability (P) The probability of a loss when the hazardous event does occur	**Risk level**
Frequent (happens often)	10
Probable (quiet possible)	6
Occasional (unusual, but possible)	3
Remotely possible (has happened somewhere)	1
Improbable (practically impossible)	0.5

Severity (S) Consequences of the hazardous event	**Risk level**
Catastrophic many fatalities; or interruption of longer than 2 weeks; or asset or environmental damage (or both) exceeding R100m	100
Disaster (few fatalities; or interruption between one and 2 weeks; or asset or environmental damage (or both) exceeding R10m)	40
Very serious (one fatality; or interruption of 6 days; or asset or environmental damage (or both) exceeding R100,000	7
Important (temporary disability; or interruption between 6 and 24 hours; or damage exceeding R10,000	3
Noticeable (first aid needed; or interruption of less than 6 hours; damage exceeding R1000)	1

Risk classification (Risk score = E x P x S)

Risk score	**Risk level**
Over 400---------5	Very high risk – discontinue operation or activity
200 to 400 ------ 4	High risk – immediate correction needed
70 to 200------- 3	Substantial risk – correction needed
20 to 70--------- 2	Possible risk – attention needed
Under 20 -------- 1	Risk accepted

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

	Activity	Hazard	Risk	Risk Evaluation			Risk Score	Risk level
				E	P	S		
1	**Demolitions**							
	Mechanical and manual demolition of structures	• Collapsing of structures. Noise. Dust. Flying objects. Machinery running out of control. Manual handling of tools	• Injury to body. Noise-induced hearing. Respiratory disease. Damage to eyes; Damage to nearby properties; Injury to hands	6	6	3	108	3
2	**Construction of transit camps**							
	Construction of transit camps using roofing sheets	• Manual handling of roofing sheet. Use of hand tools. Exposure to mortar. Elevated positions	• Hands/ body cuts. Possible of pinch. Mortar inhalation. Skin irritation. Fall from elevated positions. Broken bone.	3	6	3	54	2
3	**Public safety**							

		• Public exposure to construction activities; community unrest; fighting over resources	• Injury to body; work stoppage; Legal claims	6	6	3	108	3
4	**Blockwork**							
		• Unsafe working at height platforms; Unsafe hand tools; Contact with mortar	• Fall risk; broken bone; dislocation; Injury to hands; Skin dermatitis	6	6	3	108	3
5	**Site establishment**							
	• Manual and mechanical clearing of the land. Off-loading and positioning of containers by mobile crane. Fencing. Installation of temporary water supply, electricity, ablution facilities	• Incompetent construction mobile plant operator. Manual Handling of equipment and materials. Uneven surfaces. Driving on dangerous and undulating	• Body injuries/ Accidents. Destruction of services. Burns/ death	2	6	3	36	2

		terrain. Reckless driving. Electrocution. Incorrect/ poor connection of temporary services						
6	**Site clearing**							
	• Clearing of the site using construction mobile plant and hand tools	• Incompetent driver/ operator; Unsafe construction mobile plant/ hand tools; Petrol and oil spillages; Existing services; Noise	• Accident; property damage; machinery running out of control; Injury to body; Environmental contamination; Noise induced hearing loss	3	6	7	126	3
7	**Roof work**							
	• Construction of roof	• Working on fall risk position; Unsafe roof access; Untrained roof erectors; No/	• Falling from; Falling into; broken borne; death; disablement; Head injuries	6	6	7	252	4

		poor roof work planning; Collapsing of the roof; Falling objects						
8	**Excavation work**							
	• Manual and mechanical excavation	• Unsafe hand tools; Unsafe construction mobile plants; Uneven surface/ ground condition; Incompetent construction mobile plant operator; Oil leak; Unforeseen underground services	• Broken borne; dislocation; Accidents; injuries to hands; Falling into excavation; Ground contamination	3	3	3	27	2
9	**Use of hand-tools and electrical tools**							
	• Conducting activities using hand-tools and electrical tools	• Unsafe hand-tools/ electrical tools. Possible of pinch	• Injury to hands	6	3	1	18	1
10	**Construction mobile plants and vehicles**							
	• Use of construction vehicles and mobile plants and	• Unsafe construction plants and equipment.	• Accidents; injury to employees and public; death;	6	6	7	252	4

	equipment	Incompetent drivers or operators. Oil leaks	disablement; damage to property. Environmental contamination					
11	**Site security**							
		• Unguarded site camp; Inadequate security provision; No safe access control	• Loss of material and equipment/ financial risks/ theft/ unlawful invasion or damage new of houses	6	3	3	54	2
12	**Working in a fall risk positions**							
		• Falling into; Falling from; Medical unfit; Untrained person	• Broken borne/ disablement/ death	6	6	7	252	4

RISK PROFILE:

Construction of 100 top-structure units at Richmond Farm Housing Project (ward 38 and 41)

