

HAZARD DATA BASE		Doc. Ref: HDB/01		SITE ASSESSMENT/SURROUNDING ENVIRONMENT	
		Rev: 0	Date: May 2008		
Note: The Following Is A Non-Exhaustive Generic List Of Possible Hazards / Risks For Guidance Purposes Only. Assessor To Augment As Necessary. ©					
REF	SCOPE/ ISSUES TO BE CONSIDERED	PROMPT	RISK/HAZARD	DESIGN OPTIONS TO ELIMINATE HAZARD / REDUCE RISK	
1.0	BIOLOGICAL HAZARDS CONTAMINATED GROUND	Toxic waste, Decomposing materials, Gaseous emissions, Asbestos, Microbiological agents, Industrial waste, General land fill, Sewage.	Exposure to Biological Diseases. <u>Occupational diseases:</u> Tetanus. Leptospirosis. Gastro Enteritis. Hepatitis A, B& C. Polio.	<ul style="list-style-type: none"> Engage specialist soil/ ground conditions investigations (Trial Pits/Bore Holes). Seal contaminated ground rather than excavate and fill. Avoid open excavations and use driven piles for substructure where possible. 	
1.1	PROXIMAL HEALTH HAZARDS	Airborne, Buried, Industrial, Commercial, Liquid, Dust, Solid. Fire, Flooding.	Exposure to contaminants	<ul style="list-style-type: none"> Consult with adjoining land occupiers regarding nature and extent of hazards and agree strategies. Consider relocation of exposed areas elsewhere on site. 	
1.2	UNDERGROUND SERVICES	Gas, Water, Electrical cables, Telephone/Communication, Foul Drainage, Surface Water Drainage. Excavation works. Exploratory works. Service tie-ins. Possibility of collapse when working adjacent to previous excavations or existing structures/ old mines.	Injury. Electrocution. Fire by explosion. Asphyxiation (Methane). Collapse of excavation/trench <u>Occupational diseases:</u> Tetanus. Leptospirosis. Gastro Enteritis. Hepatitis A, B& C. Polio.	<p>It is important to have complete and reliable site-related information. E.g.:</p> <ul style="list-style-type: none"> Existence and location of any underground workings and services. Request services records from utility providers and consider service locations in the design. Consider diversion/isolation. Consider the possibility of non-excavation for service supply runs (Trenchless/mole type drilling). Situating excavations away from existing underground services. Keeping excavations as shallow AFARP, by using the engineering properties of the ground itself to maximum advantage. <p>REF: Code of Practice for Avoiding Danger from Underground Services (HSA)</p>	
1.3	OVER GROUND SERVICES	Crane operations. Tipper trucks. Hi-Ab Delivery trucks. Excavators. Piling/Bore rigs. Over Ground Electrical Cables, Over ground Telecom cables.	Contact with overhead cables. Electrocution. Electric shock. Arcing (up to 10m). Burns.	<ul style="list-style-type: none"> Request services records from utility providers and consider service locations in the design. Consider diversion/isolation. Design out works near high voltage power lines. Ensure site investigations are not in areas where overground services exist. Make those carrying out site investigations aware of any known overground services. 	
1.4	UNDERGROUND WORKINGS	Excavation works. Exploratory works. Service tie-ins. Gas, Water, Electrical cables, Telephone/Communication, Foul Drainage, Surface Water Drainage. Effect on adjacent foundations/structures.	Collapse of Excavation. Collapse of adjacent structures. Damage to underground services. Possibility of collapse when working adjacent to previous excavations or existing structures/ old mines.	<p>It is important to have complete and reliable site-related information. E.g.:</p> <ul style="list-style-type: none"> Existence and location of any underground workings and services. Request services records from utility providers and consider service locations in the design. Consider diversion/isolation. Consider the possibility of non-excavation for service supply runs (Trenchless/mole type drilling). Specify situating excavations away from existing underground services. Keeping excavations as shallow AFARP, by using the engineering properties of the ground itself to maximum advantage. <p>REF: A Guide To Safety in Excavations Safety, Health And Welfare At Work (Construction) Regulations 2006</p>	

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